# INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOLS

## BHAWANI DAYAL MEMORIAL PRIMARY SCHOOL (2348)

## SUMMARY REPORT

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## 1) INSPECTION SUMMARY

| School Inspection Summary | |
|---|---|
| **School name:** | BHAWANI DAYAL MEMORIAL PRIMARY SCHOOL |
| **Overall condition state:** | FAIR |

**Key recommendations:**

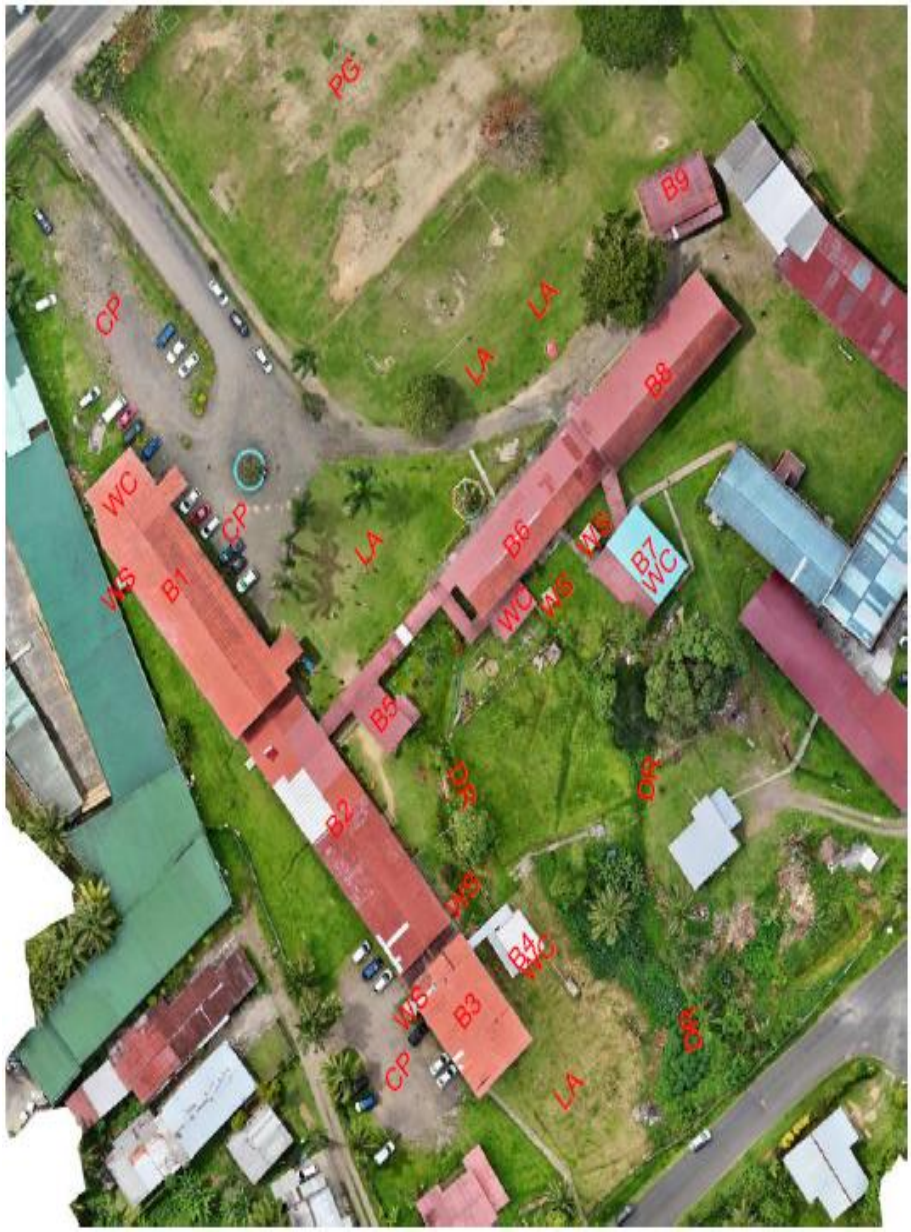
- Overcrowding – 11 new classrooms required based on FNBC standards
- Overcrowding – 6 new classrooms required based on recommended sizing (1.5m$^2$)
- WASH – 2 new toilet cubicles required for girls / maintenance of ablution blocks required
- Accessibility –All buildings require accessibility ramps, accessible doorways
- Disaster resilience – Windows to include cyclone shutters and roof cladding fastened with Cyclone roofing screws.

**Comments:**

Major defects were noted as follows:

- Missing ramps (All buildings)
- Inadequate stairway width. (all buildings)
- Rusted roof cladding, gutter and roofing nails
- Block 9 to be immediately demolished and reconstructed with Morden class rooms.
- Very little recreational facilities for children during breaks.

**Aerial view of school**




**General view of school**

| | | | | | | |
|---|---|---|---|---|---|---|
| **School type:** | **Primary** | ✓ | **Secondary** | | **Year levels** | 1, 2, 3, 4, 5, 6, 7, 8 |
| **School address:** | 9 AND HALF MILES, NAKASI, 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)** | |
| | 440 | 447 | 0 | 11 | 14 | |
| **School building arrangement** | TOTAL NUMBER OF BUILDINGS: 9<br>**B1** – 2 STOREYS / **B2** – 2 STORYS / **B3** – 2 STOREYS / **B4** – S/STOREYS<br>**B5** – S STOREYS / **B6** – 2 STOREYS / **B7** – S/STOREYS / **B8** – S/STOREYS / **B9** – S/STOREYS | | | | | |
| **Local government area:** | KINGS ROAD | | | | | |
| **Date of inspection:** | 9TH SEPTEMBER 2024 | | | | | |
| **Inspection team:** | RAJIV KUMAR<br>FREDDY TURAQA<br>ALEKSIO MANOA<br>SURAJ RAGHUNATH<br>LAITE TELAWA | | | | | |
| **Data collection methods** | Visual inspection | ✓ | Onsite measurement | ✓ | | |
| | Interviews with school staff | ✓ | Drone / aerial imagery | ✓ | | |
| | Survey form | ✓ | Desktop research | ✓ | | |
| | Other: | | | | | |
| **Assumptions:** | SCHOOL HAS A BOUNDARY PLAN, FEMIS IS UPDATED | | | | | |
| **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 (1.5$m^2$), according to 2024 data, an additional 6 classrooms are required for Bhawani Dayal Memorial Primary School

| Year | Stream | Number of students | Current number of classrooms | Number of extra classrooms required based on FNBC on 2024 data |
|---|---|---|---|---|
| 1 | 101 | **34** | 3 | 1 |
| | 102 | **35** | | |
| | 103 | **35** | | |
| 2 | 201 | **33** | 3 | 1 |
| | 202 | **35** | | |
| | 203 | **34** | | |
| 3 | 301 | **37** | 3 | 1 |
| | 302 | **38** | | |
| | 303 | **38** | | |
| 4 | 401 | **36** | 3 | 1 |
| | 402 | **38** | | |
| | 403 | **36** | | |

| | | | | |
|---|---|---|---|---|
| 5 | 501 | **37** | 3 | 0 |
| | 502 | **35** | | |
| | 503 | **38** | | |
| 6 | 601 | **39** | 3 | 1 |
| | 602 | **38** | | |
| | 603 | **37** | | |
| 7 | 701 | **40** | 3 | 1 |
| | 702 | **41** | | |
| | 703 | **40** | | |
| 8 | 801 | **38** | 3 | 0 |
| | 802 | **39** | | |
| | 803 | **36** | | |

## 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 |
|---|---|---|---|---|---|---|
| Block 1 | 45 | 11 | 6.5 | 2 | Concrete with cladding on timber framed roof structure | Block 1 – Ground floor level contains; BOYS TOILET (1 URINAL, 3 TOILETS, 1 SHOWER) – 3.35M x 6.9M, GIRLS TOILET (5 TOILETS, 1 SHOWER, 1 HAND BASIN) – 3.35M x 6.9M, YR803 – 9M x 6.9M, YR802 – 9.2M x 6.9M, YR801 – 9.2M x 6.9M, YR403 – 7.1M x 6.9M.<br>Block 1 – 1st Floor contains; MAIN OFFICE – 9.2M x 6.9M, LIBRARY – 9.2M x 6.9M, COMPUTER LAB – 9.3M x 6.9M, CULTURE ROOM – 12.9M x 6.9M, MALE STAFF TOILET (2 TOILETS, 1 URINAL, 3 HAND BASIN) – 3.3M x 4.2M, FEMALE TOILET (3 TOILETS, 3 HAND BASIN) – 3.3M x 2.6M. |
| Block 2 | 47 | 10 | 3.2 | 1 | Concrete with cladding on timber framed roof structure | Block 2 – SICK BAY – 3.6M x 8.9M, YR501 – 8.7M x 6.6M, YR502 – 8.8M x 6.6M, YR503 – 8.6M x 6.6M, YR601 – 8.56M x 6.6M, YR602 – 8.4M x 6.6M |
| Block 3 | 16 | 12 | 2.5 | 2 | Timber structure with cladding on timber framed roof structure | Block 3 – Ground Floor – YR702 – 7.7M x 7M, YR603 – 7.9M x 7M.<br>Block 3 – First Floor – YR703 – 7.7M x 7M, YR701 – 7.8M x 7M. |
| Block 4 | 7 | 7 | 2.4 | 1 | Concrete with cladding on timber framed roof structure | Block 4 – GIRLSTOILET (4 TOILETS, 1 HAND BASIN, 5 BINS) – 4.3M x 2.9M, BOYS TOILET (3 TOILET, 1 HAND BASIN, 1 URINAL) – 4.3M x 2.9M |
| Block 5 | 11 | 7 | 2.4 | 1 | Concrete with cladding on timber framed roof structure. | Block 5 – CANTEEN – 7.6M x 3.4M. |

| | | | | | | |
|---|---|---|---|---|---|---|
| Block 6 | 28 | 7 & 8.5 | 5.8 & 8.5 | 2 | Concrete with cladding on timber framed roof structure. | Block 6 – Ground Floor - GIRLS WASHROOM (1 TOILET, 1 HAND BASIN) – 1.8M x 0.95M, BOYS WASHROOM (1 TOILET, 1 HAND BASIN) – 1.8M x 0.95M, KINDERGARTEB CLASSROOM – 7.4M x 9.4M<br>Block 6 – 1st Floor – YR401 – 7.4m X 6.7m, YR101 – 7.5M x 6.7M, YR103 – 7.4M x 6.7M, YR102 – 7.4M x 6.7M. |
| Block 7 | 11.50 | 9.8 | 2.6 | 1 | Concrete with cladding on timber framed roof structure | Block 7 – GIRLSTOILET (10 TOILETS, 11 HAND BASIN) – 11.5M x 3M, BOYS TOILET (9 TOILET, 10 HAND BASIN, 1 URINAL) – 11.5M x 3M |
| Block 8 | 31.5 | 11.8 | 3 | 1 | Concrete with cladding on timber framed roof structure | Block 8 – YR201 – 6M x 7.4M, YR202 – 6M x 7.4M, YR203 – 6M x 7.4M, YR301 – 6.1M x 7.4M, YR302 – 6.2M x 7.4M. |
| Block 9 | 12.5 | 8.5 | 2.4 | 1 | Timber framed structure with metal cladding | Block 9 – YR402 – 6M x 7M, YR303 – 6M x 7M. |

**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 | Fair |
| 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** –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.
- **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 –** not applicable, as school has maximum of 2 storeys.
- **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, 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**

Bhawani Dayal Memorial primary school has 4 blocks with toilet facilities. The facilities are well maintained with zero defects. However, the issue is that wash facilities are located at one end of the school for entire school to use.

The WASH facilities were unclean and lacked maintenance while the girl's toilet cubicles do 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). | |
|---|---|---|---|---|---|---|
| Building Index | Female | Male | Female | Male | Female Requirement (1:20) Extra Toilets? | Male Requirement (1:30) Extra Toilets? |
| Block 2 | 21 | 16 | 22 | 28 | 2 | 0 |
| | | | | | | |
| **HAND BASINS IN THE TOILET** | No. of Hand Basins | | Handbasin Ratio 1: | | Compliance of Student to Hand Basin Ratio (FNBC). | |
| Building Index | Female | Male | Female | Male | Female Requirement (1:60) Extra Handbasins? | Male Requirement (1:60) Extra Handbasins? |
| Block 1 | 14 | 12 | 32 | 37 | 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? |
|---|---|---|---|
| Building Index | | | |
| Block 2 and 5 | 19 | 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. Except for block 9
- Central Location: The school is centrally located, allowing easy access to main streets and relief services.

**Structural**

- Material Quality: The school buildings are constructed using reinforced concrete and follow acceptable engineering design principles.
- Structural Integrity: Buildings have demonstrated the capability to withstand and recover from natural disasters like earthquakes, category 3 cyclones, and floods. Except for block 9.

**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.

## SUMMARY OF FINDINGS

The following summarizes the individual characteristics assessed during the Suva-Nausori school audit for BHAWANI DAYAL MEMORIAL 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.<br>- General upkeep – Minor irregular maintenance.<br>- Safety compliance- handrails where necessary.<br>- Disability- no consideration when constructed.<br>- Ventilation and lighting – damaged and missing lights at some sections of buildings. | - Structural Integrity – Columns, slabs, beams, rafters, purlins sizes to follow FNBC 1990.<br>- General upkeep –routine checkup as per MOE policies with major defects requiring immediate intervention.<br>- Safety compliance- handrails, extra doors and signage where necessary.<br>- Disability- to comply with FDPF Disability audit tool<br>- Ventilation and lighting – adequate windows and doors required as per FNBC 1990. | - Structural Integrity – Columns, slabs, beams, rafters, purlins sizes to follow FNBC 1990.<br>- General upkeep –requires immediate intervention to major defects.<br>- 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.<br>- Disability- not fully compliant with FDPF Disability audit tool<br>- 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 987roll/24 classrooms of 42 students. | - FNBC 1990 requires classroom occupancy to have 2m$^2$ per person. Based on that, the required roll per classroom was calculated. | - 16/24 classrooms were accommodating more roll than required.<br>- Given the recommended sizing (1.5m$^2$), about 6 extra classrooms are required to address overcrowding in school. |
| Water Sanitation Hygiene (WASH) facilities | Toilets (students: Cubicle)<br>- Boys – 28:1 (16 cubicles)<br>- Girls – 22:1 (21 cubicles)<br><br>Taps (students: tap)<br>- Students – 52:1 (19 taps)<br><br>- Menstrual Hygiene was present in every female washroom block and at main office. | Toilets Ratio (students: Cubicle)<br>- Boys – 30:1 (15 cubicles)<br>- Girls – 20:1 (23 cubicles)<br>Taps Ratio (students: tap)<br>- Students – 60:1 (17 taps)<br>**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.**<br>- Menstrual Hygiene to be present in every female washroom block | - The girls toilet ratio exceeded the FNBC requirement indicating not enough toilet cubicles are in the school. Given the roll of girls, a total of 2 extra cubicles is required<br>- The tap ratio was below the FNBC requirement indicating extra taps are in the school.<br>- school require maintenance of rusting pipes and algae buildup in WASH facilities. |
| Disaster Resilience Assessment | - columns, beams, slabs had hairline cracks.<br>- All roof had truss roof frames.<br>- The windows only have burglar shutters at some sections.<br>- roofing nails show rusting. | Fiji Building Code 1990. Requirement is that roof cladding be free of rust and fastened securely with type 17 cyclonic screws with neoprene washers. Additionally, cyclone brackets to be fixed on every window frame. | - Rusting of cladding contradicts to the cyclone certification requirement requiring replacement.<br>- Absence of cyclone brackets are not acceptable as per the cyclone certification. |

| | | | |
|---|---|---|---|
| Accessibility Assessment | -Handrails partially damaged in corridors.<br>- Classrooms and labs have typical door size of 0.8 – 0.9m width.<br>- Stairway – average 0.9m width. | **The following are requirements from Fiji Disabled People's Federation Access Audit Tool**<br>- Ramps – required wherever elevation with minimum 1:8 maximum 1:20<br>- Walkway clearance - minimum 1.8m.<br>- Handrails to be 0.76m to 0.9m.<br>- Doors and Door size – minimum 0.9m.<br>- Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1) | The following facilities are missing.<br>- Ramps and elevators for vertical access<br>- Wide doorways and clear pathways<br>- Proper signage<br>- Wheelchair-accessible restrooms<br>- Grab bars<br>- Proper signage<br>- Inclusive seating areas and pathways<br>- Proper lighting<br>- Contrasting floor materials |

## 7) RECOMMENDATIONS

- In order to comply with the FNBC, the school will require the following:
  - Classrooms: An additional 11 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.
  - Block 9 has to be demolished and reconstructed.
- WASH Facilities: An additional 2 cubicles for girls are required, equipped with up-to-date WASH facilities (handbasins), catering particularly to the needs of female students. These new facilities are essential to ensure hygiene and comfort. Additionally, some consideration could also be given to the boys' toilet cubicles as the ratio is in par with the FNBC ratio. The exact number could be discussed upon further analysis.

Weekly routine maintenance work and daily 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.

## 8) COMPLIANCE

Upon inspecting Bhawani Dayal Memorial Primary School, the following conclusions were drawn:

- **MEHA Compliance:** Compliant
- **WASH Facilities:** The school has ample taps. Additional 8 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

## 9) APPENDIX

Appendix A - 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

## BHAWANI DAYAL MEMORIAL PRIMARY SCHOOL (1849)

## 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) SCHOOL BACKGROUND

Bhawani Dayal Memorial Primary School, Nakasi was constructed in 1942 in the memory of Swami Bhawani Dayal Sanyasi, (1892- 1950) an Aryan Missionary for his outstanding zeal and commitment to Arya Samaj and the plight of immigrant Indians in South Africa. The first Head Teacher of the school was Mr. Bal Ram. The school's registration number is 1849. Today Bhawani Dayal Memorial Primary School is one of the largest mainstream multiracial and a co-educational primary schools in Fiji. The controlling authority of the school is the Arya Pratinidhi Sabha of Fiji.

Currently the school enrols more than 900 students in the Primary School each year. The school also has an attached Kindergarten known as Bhawani Dayal Arya Kindergarten which caters for more than 90 enrolled students every year.

The Primary School offers education from Year 1 up to Year 8. There are three streams of each Year level in the primary school. For Kindergarten, the school offers two sessions; the morning session and the afternoon session.

Bhawani Dayal Primary School is well known for its contribution towards the community. The ex-students of this school hold high profile positions in the employment fraternity.

The school is run through FEG funding, which is given to school under different allocations from ministry. But than again the funding is not sufficient, as the school is a very high-profile school, and requires huge amount of money for the upkeep.

**Table 1: SCHOOL DETAILS**

| | |
|---|---|
| **NAME OF SCHOOL** | **BHAWANI DAYAL MEMORIAL PRIMARY SCHOOL** |
| **SCHOOL REGISTRATION NUMBER** | 1849 |
| **SCHOOL LOCATION** | 9 AND HALF MILES, NAKASI, NAUSORI |
| **SCHOOL TYPE** | PRIMARY SCHOOL |
| **FEEDER SCHOOL** | BHAWANI DAYAL AYRA COLLEGE |
| **DATE OF INSPECTION** | 9TH SEPTEMBER 2024 |
| **MILESTONE** | PHASE 4 -76/ 86 SCHOOLS |
| **INSPECTED BY (TEAM 4)** | RAJIV KUMAR (RK) |
| | FREDDY TURAQA (FT) |
| | ALEKSIO MANOA (AM) |
| | SURAJ RAGHUNATH (SR) |

**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 | 440 | 447 | 987 | 0 | 11 | 14 | 25 | • 24 classrooms<br>• Student to stream is 987 roll / 24 classrooms = 42 :1 for 2024 school calendar<br>• Total taps count = 19<br>- WASH ratio (Taps) = 52:1 < 60:1<br>• WASH ratio (Toilets)<br>- total boys toilet cubicle count = 16<br>- Male = 28:1 < 30:1<br>- total girls toilet cubicle count = 21<br>- Female = 22:1 > 20:1<br>EVACUATION CENTRE = NO RECORD |
| 2023 | 454 | 454 | 908 | 0 | 13 | 12 | 25 | |
| 2022 | 457 | 463 | 920 | 0 | 12 | 13 | 25 | |
| 2021 | 469 | 478 | 947 | 0 | 13 | 12 | 25 | |
| 2020 | 467 | 489 | 956 | 0 | 14 | 12 | 26 | |
| 2019 | 468 | 484 | 952 | 0 | 14 | 13 | 27 | |

**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 | |
| Year 1 | 101 | 34 | 1 | 7.5 | 6.7 | 1 | 12 | ☒YES ☐NO |
| | 102 | 35 | 1 | 7.4 | 6.7 | 1 | 12 | ☒YES ☐NO |
| | 103 | 35 | 1 | 7.4 | 6.7 | 1 | 12 | ☒YES ☐NO |
| Year 2 | 201 | 33 | 1 | 6 | 7.4 | 1 | 8 | ☒YES ☐NO |
| | 202 | 35 | 1 | 6 | 7.4 | 1 | 6 | ☒YES ☐NO |
| | 203 | 34 | 1 | 6 | 7.4 | 1 | 5 | ☒YES ☐NO |
| Year 3 | 301 | 37 | 1 | 6.1 | 7.4 | 1 | 6 | ☒YES ☐NO |
| | 302 | 38 | 1 | 6.2 | 7.4 | 1 | 8 | ☒YES ☐NO |
| | 303 | 38 | 1 | 6 | 7 | 1 | 11 | ☒YES ☐NO |
| Year 4 | 401 | 36 | 1 | 7.4 | 6.7 | 2 | 12 | ☒YES ☐NO |
| | 402 | 38 | 1 | 6 | 7 | 1 | 11 | ☒YES ☐NO |
| | 403 | 36 | 1 | 7.1 | 6.9 | 1 | 14 | ☒YES ☐NO |
| Year 5 | 501 | 37 | 1 | 8.7 | 6.6 | 2 | 16 | ☒YES ☐NO |
| | 502 | 35 | 1 | 8.8 | 6.6 | 2 | 16 | ☒YES ☐NO |
| | 503 | 38 | 1 | 8.6 | 6.6 | 2 | 16 | ☒YES ☐NO |
| Year 6 | 601 | 39 | 1 | 8.56 | 6.6 | 2 | 16 | ☒YES ☐NO |
| | 602 | 38 | 1 | 8.4 | 6.6 | 2 | 16 | ☒YES ☐NO |
| | 603 | 37 | 1 | 7.9 | 7 | 2 | 14 | ☒YES ☐NO |
| Year 7 | 701 | 40 | 1 | 7.8 | 7 | 2 | 14 | ☒YES ☐NO |
| | 702 | 41 | 1 | 7.7 | 7 | 2 | 14 | ☒YES ☐NO |
| | 703 | 40 | 1 | 7.7 | 7 | 2 | 14 | ☒YES ☐NO |
| Year 8 | 801 | 38 | 1 | 9.2 | 6.9 | 2 | 20 | ☒YES ☐NO |
| | 802 | 39 | 1 | 9.2 | 6.9 | 2 | 20 | ☒YES ☐NO |
| | 803 | 36 | 1 | 9 | 6.9 | 2 | 20 | ☒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 for Building 1**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Building Index** | **BLOCK 1** | | | | **Year built: - 1960 (Age: 64)** | |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **Ground floor: Washrooms & Classrooms**<br>➢ **1s Floor – Main Office, Library, Culture Room, Washrooms** | | | | | **No. of Levels: 2** |
| **Dimensions** | **Length (m):45** | | **Width (m): 11** | | **Height (m): 6.5** | |
| Existing State of Building | | | | | | |
| **REF. No.** | **Building Component** | **Good [1]** | **Fair[2]** | **Poor[3]** | **Structure Type [4]** | **Comments** |
| 1 | Roof Lining | ✓ | | | Metal Cladding | Roof needs a paint job |
| 2 | Roof Structure | ✓ | | | Timber Frame | Connection Concealed |
| 3 | Walls | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | ✓ | | | Metal pipes | Safe height, need painting |
| 8 | Walkway(s) | ✓ | | | Concrete | 2m walkway |
| 9 | Services – water supply | ✓ | | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | ✓ | | | | N/A — Student – tap ratio = N/A |
| 11 | Services – electricity | ✓ | | | | Connected to EFL grid |
| 12 | Services – communication | ✓ | | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | ✓ | | | | All Drainage directed to NTC Drains |

Block 1 is constructed out of concrete beams and column with slab on ground and suspended floor slab for 1st floor. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Gable roof with timber cladding with timber framed. Ventilation is satisfactory with adequate lighting. Classrooms are well maintained.

Block 1 is not a disable friendly, all office, labs, classrooms, entry and exit points has floor split levels.

There is a presence of fire extinguishers and fire hose reels, but require immediate maintenance and commissioning.

Block 1 – Ground floor level contains; BOYS TOILET (1 URINAL, 3 TOILETS, 1 SHOWER) – 3.35M x 6.9M, GIRLS TOILET (5 TOILETS, 1 SHOWER, 1 HAND BASIN) – 3.35M x 6.9M, YR803 – 9M x 6.9M, YR802 – 9.2M x 6.9M, YR801 – 9.2M x 6.9M, YR403 – 7.1M x 6.9M.

Block 1 – 1st Floor contains; MAIN OFFICE – 9.2M x 6.9M, LIBRARY – 9.2M x 6.9M, COMPUTER LAB – 9.3M x 6.9M, CULTURE ROOM – 12.9M x 6.9M, MALE STAFF TOILET (2 TOILETS, 1 URINAL, 3 HAND BASIN) – 3.3M x 4.2M, FEMALE TOILET (3 TOILETS, 3 HAND BASIN) – 3.3M x 2.6M.

Classrooms has fan and adequate exterior and interior electricity lighting. All switches are working

[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 FOR BUILDING 2

| Building Index | BLOCK 2 | | | | Year built: - 1960 (Age: 64) | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:<br>➢ Sick Bay, Classrooms | | | | | No. of Levels: 1 |
| Dimensions | Length (m): 47 | | Width (m): Various – 10 | | Height (m): 3.2 | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [5] | Fair[6] | Poor[7] | Structure Type [8] | Comments |
| 1 | Roof Lining | ✓ | | | Metal Cladding | Roof needs a paint job |
| 2 | Roof Structure | ✓ | | | Timber Frame | Connection Concealed |
| 3 | Walls | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | ✓ | | | Metal pipes | Safe height, need painting |
| 8 | Walkway(s) | ✓ | | | Concrete | 2m walkway |
| 9 | Services – water supply | ✓ | | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | ✓ | | | | 5 - Taps / Student – tap ratio = 1:40 |
| 11 | Services – electricity | ✓ | | | | Connected to EFL grid |
| 12 | Services – communication | ✓ | | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | ✓ | | | | All Drainage directed to NTC Drains |

Block 2 is constructed out of concrete beams and column with slab. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Gable roof with timber cladding with timber framed. Ventilation is satisfactory with adequate lighting. Classrooms are well maintained.

Block 2 is not a disable friendly, all office, labs, classrooms, entry and exit points has floor split levels.

There is a presence of fire extinguishers and fire hose reels, but require immediate maintenance and commissioning.

Block 2 – SICK BAY – 3.6M x 8.9M, YR501 – 8.7M x 6.6M, YR502 – 8.8M x 6.6M, YR503 – 8.6M x 6.6M, YR601 – 8.56M x 6.6M, YR602 – 8.4M x 6.6M

Classrooms has fan and adequate exterior and interior electricity lighting. All switches are working

[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

## Table 6: EXISTING BUILDING INFORMATION FOR BUILDING 3

| Building Index | BLOCK 3 | | | | Year built: - 1960 (Age: 64) | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:<br>➢ Tool Room, Language Room, Classroom | | | | | No. of Levels: 2 |
| Dimensions | Length(m):16 | Width (m): 12 | | | Height (m): 2.5 | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [9] | Fair[10] | Poor [11] | Structure Type [12] | Comments |
| 1 | Roof Lining | ✓ | | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | ✓ | | | Timber Frame | Connection Concealed |
| 3 | Walls | ✓ | | | Concrete | Requires immediate maintenance |
| 4 | Columns | ✓ | | | Concrete | Concealed |
| 5 | Beams | ✓ | | | Concrete | Requires painting |
| 6 | Floor | ✓ | | | Concrete | Requires maintenance and painting |
| 7 | Handrails | | | | Steel | Only 1 level |
| 8 | Walkway(s) | ✓ | | | Concrete | Requires maintenance |
| 9 | Services – water supply | ✓ | | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | ✓ | | | | NA — Student – tap ratio = - |
| 11 | Services – electricity | ✓ | | | | Connected to EFL grid |
| 12 | Services – communication | ✓ | | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | ✓ | | | | All Drainage directed to NTC drains |

Block 3 is constructed out of concrete beams and column with slab on ground and suspended floor slab for 1st floor. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Gable roof with timber cladding with timber framed. Ventilation is satisfactory with adequate lighting. Classrooms are well maintained.

Block 3 is not a disable friendly, all office, labs, classrooms, entry and exit points has floor split levels.

Block 3 – Ground Floor – YR702 – 7.7M x 7M, YR603 – 7.9M x 7M.

Block 3 – First Floor – YR703 – 7.7M x 7M, YR701 – 7.8M x 7M.

Classrooms has fan and adequate exterior and interior electricity lighting. All switches are working

[9] Good - No additional works / intervention required
[10] Fair - Remedial works required – min CAT 3 standard
[11] Poor - Demolition and replace with new - min CAT 4 standard
[12] Type of structure - Timber/concrete/steel

## Table 7: EXISTING BUILDING INFORMATION FOR BUILDING 4

| Building Index | BLOCK 4 | | | | Year built: - 1960 (64years) | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE: TOILET BLOCK | | | | | No. of Levels: 1 |
| Dimensions | Length(m):7 | | Width (m): 7 | | Height (m): 2.4 | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [13] | Fair[14] | Poor [15] | Structure Type [16] | Comments |
| 1 | Roof Lining | ✓ | | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | ✓ | | | Timber Frame | |
| 3 | Walls | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | | | | | |
| 8 | Walkway(s) | | | | | |
| 9 | Services – water supply | ✓ | | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | | | | | |
| 11 | Services – electricity | ✓ | | | | Connected to EFL grid |
| 12 | Services – communication | ✓ | | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | ✓ | | | | All Drainage directed to NTC Drainage Network |

Block 4 is constructed out of concrete beams and column with slab. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Flat roof with cladding with timber framing.

Block 4 is not a disable friendly, entry and exit points has floor split levels.

There is a presence of fire extinguishers and fire hose reels, but require immediate maintenance and commissioning.

Block 4 – GIRLSTOILET (4 TOILETS, 1 HAND BASIN, 5 BINS) – 4.3M x 2.9M, BOYS TOILET (3 TOILET, 1 HAND BASIN, 1 URINAL) – 4.3M x 2.9M

[13] Good - No additional works / intervention required
[14] Fair - Remedial works required – min CAT 3 standard
[15] Poor - Demolition and replace with new - min CAT 4 standard
[16] Type of structure - Timber/concrete/steel

## Table 8: EXISTING BUILDING INFORMATION FOR BUILDING 5

| Building Index | BLOCK 5 | | | | Year built: - 1960 – 64 years | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:<br>➢ CANTEEN | | | | | No. of Levels: 1 |
| Dimensions | Length(m):11 | Width (m): 7 | | | Height (m): 2.4 | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [17] | Fair[18] | Poor [19] | Structure Type [20] | Comments |
| 1 | Roof Lining | ✓ | | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | ✓ | | | Timber Frame | Connection Concealed |
| 3 | Walls | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | ✓ | | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | | | | | |
| 8 | Walkway(s) | | | | | |
| 9 | Services – water supply | ✓ | | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | | | | | |
| 11 | Services – electricity | ✓ | | | | Connected to EFL grid |
| 12 | Services – communication | ✓ | | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | ✓ | | | | All Drainage directed to NTC Drains |

Block 5 is constructed out of concrete beams and column with slab. Block walls for external load bearing. Doors and windows present on length wise of the structure. Flat roof with cladding with timber framing.

Block 5 is not a disable friendly.

There is a presence of fire extinguishers, but require immediate maintenance and commissioning.

Block 5 – CANTEEN – 7.6M x 3.4M.

[17] Good - No additional works / intervention required
[18] Fair - Remedial works required – min CAT 3 standard
[19] Poor - Demolition and replace with new - min CAT 4 standard
[20] Type of structure - Timber/concrete/steel

## Table 9: EXISTING BUILDING INFORMATION FOR BUILDING 6

| | | | | | | |
|---|---|---|---|---|---|---|
| **Building Index** | **BLOCK 6** | | | | **Year built: - 1942 – 82 YEARS** | |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **GROUND FLOOR – KINDERGARTEN AND WASHROOMS**<br>➢ **1ST FLOOR – CLASSROOMS** | | | | | **No. of Levels: 2** |
| **Dimensions** | **Length(m):28** | | **Width (m): 7 & 8.5** | | **Height (m): 5.8 & 2.6** | |
| Existing State of Building | | | | | | |
| **REF. No.** | **Building Component** | **Good** [21] | **Fair**[22] | **Poor** [23] | **Structure Type** [24] | **Comments** |
| 1 | Roof Lining | | ✓ | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | | ✓ | | Timber Frame | Connection Concealed |
| 3 | Walls | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | | | | | |
| 8 | Walkway(s) | | ✓ | | Concrete | |
| 9 | Services – water supply | | ✓ | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | | ✓ | | | |
| 11 | Services – electricity | | ✓ | | | Connected to EFL grid |
| 12 | Services – communication | | ✓ | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | | ✓ | | | All Drainage directed to NTC Drains |

Block 6 is constructed out of concrete beams and column with slab on ground and suspended floor slab for 1sty floor. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Gable roof with metal cladding and timber framed roof members. Ventilation is satisfactory with adequate lighting. Classrooms are well maintained.

Block 6 is not a disable friendly.

There is a presence of fire extinguishers, but require immediate maintenance and commissioning.

Block 6 – Ground Floor - GIRLS WASHROOM (1 TOILET, 1 HAND BASIN) – 1.8M x 0.95M, BOYS WASHROOM (1 TOILET, 1 HAND BASIN) – 1.8M x 0.95M, KINDERGARTEB CLASSROOM – 7.4M x 9.4M

Block 6 – 1st Floor – YR401 – 7.4m X 6.7m, YR101 – 7.5M x 6.7M, YR103 – 7.4M x 6.7M, YR102 – 7.4M x 6.7M.

Classrooms has fan and adequate exterior and interior electricity lighting. All switches are working

[21] Good - No additional works / intervention required
[22] Fair - Remedial works required – min CAT 3 standard
[23] Poor - Demolition and replace with new - min CAT 4 standard
[24] Type of structure - Timber/concrete/steel

## Table 10: EXISTING BUILDING INFORMATION FOR BUILDING 7

| Building Index | BLOCK 7 | | | | Year built: - 1960 (64years) | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE: TOILET BLOCK | | | | | No. of Levels: 1 |
| Dimensions | Length(m):11.50 | Width (m): 9.80 | | | Height (m): 2.6 | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [25] | Fair[26] | Poor [27] | Structure Type [28] | Comments |
| 1 | Roof Lining | | ✓ | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | | ✓ | | Timber Frame | |
| 3 | Walls | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | | | | | |
| 8 | Walkway(s) | | | | | |
| 9 | Services – water supply | | ✓ | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | | | | | |
| 11 | Services – electricity | | ✓ | | | Connected to EFL grid |
| 12 | Services – communication | | ✓ | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | | ✓ | | | All Drainage directed to NTC Drainage Network |

Block 7 is constructed out of concrete beams and column with slab. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Flat roof with cladding with timber framing.

Block 7 is not a disable friendly, entry and exit points has floor split levels.

Block 7 – GIRLSTOILET (10 TOILETS, 11 HAND BASIN) – 11.5M x 3M, BOYS TOILET (9 TOILET, 10 HAND BASIN, 1 URINAL) – 11.5M x 3M

[25] Good - No additional works / intervention required
[26] Fair - Remedial works required – min CAT 3 standard
[27] Poor - Demolition and replace with new - min CAT 4 standard
[28] Type of structure - Timber/concrete/steel

## Table 11: EXISTING BUILDING INFORMATION FOR BUILDING 8

| Building Index | BLOCK 8 | | | | Year built: - 1942 – 82 YEARS | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:<br>➢ CLASSROOMS | | | | | No. of Levels: 1 |
| Dimensions | Length(m):31.5 | Width (m): 11.8 | | Height (m): 3 | | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [29] | Fair[30] | Poor [31] | Structure Type [32] | Comments |
| 1 | Roof Lining | | ✓ | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | | ✓ | | Timber Frame | Connection Concealed |
| 3 | Walls | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | | | | | |
| 8 | Walkway(s) | | ✓ | | Concrete | |
| 9 | Services – water supply | | ✓ | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | | ✓ | | | |
| 11 | Services – electricity | | ✓ | | | Connected to EFL grid |
| 12 | Services – communication | | ✓ | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | | ✓ | | | All Drainage directed to NTC Drains |

Block 8 is constructed out of concrete beams and column with slab on floor. Block walls for external load bearing. Partition walls are split in to 2 types, it is either concrete or timber framed. Doors and windows present on length wise of the structure. Gable roof with metal cladding and timber framed roof members. Ventilation is satisfactory with adequate lighting. Classrooms are well maintained.

Block 8 is not a disable friendly.

There is a presence of fire extinguishers, but require immediate maintenance and commissioning.

Block 8 – YR201 – 6M x 7.4M, YR202 – 6M x 7.4M, YR203 – 6M x 7.4M, YR301 – 6.1M x 7.4M, YR302 – 6.2M x 7.4M.

Classrooms has fan and adequate exterior and interior electricity lighting. All switches are working

[29] Good - No additional works / intervention required
[30] Fair - Remedial works required – min CAT 3 standard
[31] Poor - Demolition and replace with new - min CAT 4 standard
[32] Type of structure - Timber/concrete/steel

## Table 12: EXISTING BUILDING INFORMATION FOR BUILDING 9

| Building Index | BLOCK 9 | | | | Year built: - 1942 – 82 YEARS | |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:<br>➢ CLASSROOMS | | | | | No. of Levels: 1 |
| Dimensions | Length(m):12.5 | | Width (m): 8.5 | | Height (m): 2.4 | |
| Existing State of Building | | | | | | |
| REF. No. | Building Component | Good [33] | Fair[34] | Poor [35] | Structure Type [36] | Comments |
| 1 | Roof Lining | | ✓ | | Matel Cladding | Roof needs a paint job |
| 2 | Roof Structure | | ✓ | | Timber Frame | Connection Concealed |
| 3 | Walls | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 4 | Columns | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 5 | Beams | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 6 | Floor | | ✓ | | Concrete | No Sign of Cracks. Paint Finish |
| 7 | Handrails | | | | | |
| 8 | Walkway(s) | | ✓ | | Concrete | |
| 9 | Services – water supply | | ✓ | | | Connected to WAF Grid with Back up Water Tanks |
| 10 | Available taps for general use | | ✓ | | | |
| 11 | Services – electricity | | ✓ | | | Connected to EFL grid |
| 12 | Services – communication | | ✓ | | | Internet limited to Computer Labs; Adequate PA system installed. Safety signs displayed |
| 13 | Drainage | | ✓ | | | All Drainage directed to NTC Drains |

Block 9 is constructed out of concrete foundation and floor. Timber framed and wall with top plate. Roof is timber framed with metal cladding Ventilation is satisfactory with adequate lighting. Classrooms are well maintained.

Block 9 is not a disable friendly.

Block 9 – YR402 – 6M x 7M, YR303 – 6M x 7M.

Classrooms has fan and adequate exterior and interior electricity lighting. All switches are working

[33] Good - No additional works / intervention required
[34] Fair - Remedial works required – min CAT 3 standard
[35] Poor - Demolition and replace with new - min CAT 4 standard
[36] Type of structure - Timber/concrete/steel

## b) EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS

**Table 13: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 1**

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 1** | | **Year built: - 1960 (Age: 64)** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **Ground floor: Washrooms & Classrooms**<br>➢ **1s Floor – Main Office, Library, Culture Room, Washrooms** | | **No. of Levels: 2** |
| **Dimensions** | **Length (m):45** | **Width (m): 11** | **Height (m): 6.5** |

**Existing State of Building**

| REF. No. | Building Component | Good [37] | Fair[38] | Poor[39] | Structure Type [40] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[37] Good - No additional works / intervention required
[38] Fair - Remedial works required – min CAT 3 standard
[39] Poor - Demolition and replace with new - min CAT 4 standard
[40] Type of structure - Timber/concrete/steel

## Table 14: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 2

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 2** | | **Year built: - 1960 (Age: 64)** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **Sick Bay, Classrooms** | | **No. of Levels: 1** |
| **Dimensions** | **Length (m): 47** | **Width (m): Various – 10** | **Height (m): 3.2** |

**Existing State of Building**

| REF. No. | Building Component | Good [41] | Fair[42] | Poor[43] | Structure Type [44] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[41] Good - No additional works / intervention required
[42] Fair - Remedial works required – min CAT 3 standard
[43] Poor - Demolition and replace with new - min CAT 4 standard
[44] Type of structure - Timber/concrete/steel

## Table 15: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 3

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 3** | | **Year built: - 1960 (Age: 64)** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **Tool Room, Language Room, Classroom** | | **No. of Levels: 1** |
| **Dimensions** | **Length(m):16** | **Width (m): 12** | **Height (m): 2.5** |

**Existing State of Building**

| REF. No. | Building Component | Good [45] | Fair[46] | Poor[47] | Structure Type [48] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Timber | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | | | | | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | | | | | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Not present

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- Not applicable

[45] Good - No additional works / intervention required
[46] Fair - Remedial works required – min CAT 3 standard
[47] Poor - Demolition and replace with new - min CAT 4 standard
[48] Type of structure - Timber/concrete/steel

## Table 16: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 4

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 4** | **Year built: - 1960 (64years)** | |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE: TOILET BLOCK** | | **No. of Levels: 1** |
| **Dimensions** | **Length(m):7** | **Width (m): 7** | **Height (m): 2.4** |

**Existing State of Building**

| REF. No. | Building Component | Good [49] | Fair[50] | Poor[51] | Structure Type [52] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | | | | | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | | | | | Interior Door<br>Exterior Door |
| 5 | Stairway | | | | | | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Not Present

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- Not applicable

[49] Good - No additional works / intervention required
[50] Fair - Remedial works required – min CAT 3 standard
[51] Poor - Demolition and replace with new - min CAT 4 standard
[52] Type of structure - Timber/concrete/steel

## Table 17: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 5

| Building Index | BLOCK 5 | | | | | Year built: - 1960 – 64 years |
|---|---|---|---|---|---|---|
| Type: | MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:<br>➢ CANTEEN | | | | | No. of Levels: 1 |
| Dimensions | Length(m):11 | Width (m): 7 | | | | Height (m): 2.4 |

**Existing State of Building**

| REF. No. | Building Component | Good [53] | Fair[54] | Poor[55] | Structure Type [56] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[53] Good - No additional works / intervention required
[54] Fair - Remedial works required – min CAT 3 standard
[55] Poor - Demolition and replace with new - min CAT 4 standard
[56] Type of structure - Timber/concrete/steel

## Table 18: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 6

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 6** | | **Year built: - 1942 – 82 YEARS** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **GROUND FLOOR – KINDERGARTEN AND WASHROOMS**<br>➢ **1ST FLOOR – CLASSROOMS** | | **No. of Levels: 2** |
| **Dimensions** | **Length(m):28** | **Width (m): 7 & 8.5** | **Height (m): 5.8 & 2.6** |

**Existing State of Building**

| REF. No. | Building Component | Good [57] | Fair[58] | Poor[59] | Structure Type [60] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[57] Good - No additional works / intervention required
[58] Fair - Remedial works required – min CAT 3 standard
[59] Poor - Demolition and replace with new - min CAT 4 standard
[60] Type of structure - Timber/concrete/steel

## Table 19: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 7

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 7** | | **Year built: - 1960 (64years)** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE: TOILET BLOCK** | | **No. of Levels: 1** |
| **Dimensions** | **Length(m):11.50** | **Width (m): 9.80** | **Height (m): 2.6** |

**Existing State of Building**

| REF. No. | Building Component | Good [61] | Fair[62] | Poor[63] | Structure Type [64] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[61] Good - No additional works / intervention required
[62] Fair - Remedial works required – min CAT 3 standard
[63] Poor - Demolition and replace with new - min CAT 4 standard
[64] Type of structure - Timber/concrete/steel

## Table 20: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 8

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 8** | | **Year built: - 1942 – 82 YEARS** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **CLASSROOMS** | | **No. of Levels: 1** |
| **Dimensions** | **Length(m):31.5** | **Width (m): 11.8** | **Height (m): 3** |

**Existing State of Building**

| REF. No. | Building Component | Good [65] | Fair[66] | Poor[67] | Structure Type [68] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[65] Good - No additional works / intervention required
[66] Fair - Remedial works required – min CAT 3 standard
[67] Poor - Demolition and replace with new - min CAT 4 standard
[68] Type of structure - Timber/concrete/steel

## Table 21: EXISTING BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS FOR BLOCK 9

| | | | |
|---|---|---|---|
| **Building Index** | **BLOCK 9** | | **Year built: - 1942 – 82 YEARS** |
| **Type:** | **MENTION THE CONTENTS OF EACH LEVEL. EXAMPLE:**<br>➢ **CLASSROOMS** | | **No. of Levels: 1** |
| **Dimensions** | **Length(m):12.5** | **Width (m): 8.5** | **Height (m): 2.4** |

**Existing State of Building**

| REF. No. | Building Component | Good [69] | Fair[70] | Poor[71] | Structure Type [72] | Dimensions (m) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | Ramps | | | ✓ | N/A | N/A | No ramps on site |
| 2 | Walkway clearance space | ✓ | | | Concrete | 1.1 – 2 | Accessible for wheelchair user |
| 3 | Handrails | | ✓ | | Steel | 0.9 | Paint peel and minor rusting. |
| 4 | Doors and Door Size (typical) | | ✓ | | Timber | 0.8<br>0.6 – 0.9 | Interior Door<br>Exterior Door |
| 5 | Stairway | | ✓ | | Concrete | 0.9 | Not accessible for wheelchair users |

***Comments***

**Ramps**

- Absence of ramps throughout the building.

**Handrails**

- Partially damaged/denting requiring intervention.

**Doors and Door Size (typical)**

- Not accommodating to wheelchair users who require a minimum of 1m clearance.

**Stairway**

- No accessible to disable students. Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)

[69] Good - No additional works / intervention required
[70] Fair - Remedial works required – min CAT 3 standard
[71] Poor - Demolition and replace with new - min CAT 4 standard
[72] Type of structure - Timber/concrete/steel

### c) TOILET BLOCKS (BOYS and GIRLS)

**Table 22: TOILET BLOCKS (BOYS & GIRLS) AT BUILDING 1**

| **Building Index** | **BLOCK 1** | | | | | | |
|---|---|---|---|---|---|---|---|
| **Type:** | **Ground floor:**<br>• **BOYS TOILET (1 URINAL, 3 TOILETS, 1 SHOWER) – 3.35M x 6.9M**<br>• **GIRLS TOILET (5 TOILETS, 1 SHOWER, 1 HAND BASIN) – 3.35M x 6.9M**<br>• **MALE STAFF TOILET (2 TOILETS, 1 URINAL, 3 HAND BASIN) – 3.3M x 4.2M**<br>• **FEMALE TOILET (3 TOILETS, 3 HAND BASIN) – 3.3M x 2.6M.** | | | | | **No. of Levels: 2** | |
| **Dimensions** | **Length (m): 37.5** | | **Width (m): 15.71** | | | **Height (m): 7** | |
| **Existing State of Building** | | | | | | | |
| **REF. No.** | **Building Component** | **Good[73]** | **Fair[74]** | **Poor[75]** | **Structure Type [76]** | **Count [77]** | **Comments** |
| 1 | Toilet Bays – male | | ✓ | | | 3 | With 1 urinal channels |
| 2 | Toilet Bays – female | | | | | 5 | |
| 3 | Toilet Partition between boys and girls. | | ✓ | | | | Concrete |
| 4 | Shower bay | | ✓ | | | 1 | |
| 5 | Toilet Bays – accessible | | ✓ | | | | Not disable friendly |
| 6 | Entry to toilet building | | ✓ | | | | 1 door |
| 7 | Exit to toilet building | | ✓ | | | | 1 door |
| 8 | Menstrual Hygiene facilities | | | | | | |
| 9 | Students to **WASH** ratio | Toilet taps: 1 | | Male: | | Female | 1 |

Each student water closet cubicles measured to be 1.6m long and width of 1m. all water closet are operational, shall there be any damages or mis-function, handyman of the school is tasked to execute repairs. All cubicles have swing doors on hinges. Whole floor provided with tiles.

[73] Good - No additional works / intervention required
[74] Fair - Remedial works required – min CAT 3 standard
[75] Poor - Demolition and replace with new - min CAT 4 standard
[76] Type of structure - Timber/concrete/steel
[77] Count - Used for identifying number of toilet bays and menstrual hygiene facilities

## Table 23: TOILET BLOCKS (BOYS & GIRLS) AT BUILDING 4

| **Building Index** | **BLOCK 4** | | | | | | |
|---|---|---|---|---|---|---|---|
| **Type:** | **Ground floor:**<br>• **GIRLSTOILET (4 TOILETS, 1 HAND BASIN, 5 BINS) – 4.3M x 2.9M**<br>• **BOYS TOILET (3 TOILET, 1 HAND BASIN, 1 URINAL) – 4.3M x 2.9M** | | | | | **No. of Levels: 2** | |
| **Dimensions** | **Length (m): 37.5** | | **Width (m): 15.71** | | | **Height (m): 7** | |
| **Existing State of Building** | | | | | | | |
| **REF. No.** | **Building Component** | **Good[78]** | **Fair[79]** | **Poor[80]** | **Structure Type [81]** | **Count [82]** | **Comments** |
| 1 | Toilet Bays – male | | ✓ | | | 3 | With 1 urinal channels |
| 2 | Toilet Bays – female | | | | | 4 | |
| 3 | Toilet Partition between boys and girls. | | ✓ | | | | Concrete |
| 4 | Shower bay | | ✓ | | | 1 | |
| 5 | Toilet Bays – accessible | | ✓ | | | | Not disable friendly |
| 6 | Entry to toilet building | | ✓ | | | | 1 door |
| 7 | Exit to toilet building | | ✓ | | | | 1 door |
| 8 | Menstrual Hygiene facilities | | | | | | |
| 9 | Students to **WASH** ratio | Toilet taps: 2 | | Male: | 1 | Female | 1 |

Each student water closet cubicles measured to be 1.6m long and width of 1m. all water closet are operational, shall there be any damages or mis-function, handyman of the school is tasked to execute repairs. All cubicles have swing doors on hinges. Whole floor provided with tiles.

[78] Good - No additional works / intervention required
[79] Fair - Remedial works required – min CAT 3 standard
[80] Poor - Demolition and replace with new - min CAT 4 standard
[81] Type of structure - Timber/concrete/steel
[82] Count - Used for identifying number of toilet bays and menstrual hygiene facilities

## Table 24: TOILET BLOCKS (BOYS & GIRLS) AT BUILDING 6

| **Building Index** | **BLOCK 6** | | | | | | |
|---|---|---|---|---|---|---|---|
| **Type:** | **Ground floor:**<br>• **GIRLS WASHROOM (1 TOILET, 1 HAND BASIN) – 1.8M x 0.95M**<br>• **BOYS WASHROOM (1 TOILET, 1 HAND BASIN) – 1.8M x 0.95M** | | | | | | **No. of Levels: 2** |
| **Dimensions** | **Length (m): 37.5** | | **Width (m): 15.71** | | | **Height (m): 7** | |
| **Existing State of Building** | | | | | | | |
| **REF. No.** | **Building Component** | **Good[83]** | **Fair[84]** | **Poor[85]** | **Structure Type [86]** | **Count [87]** | **Comments** |
| 1 | Toilet Bays – male | | ✓ | | | 1 | With 1 urinal channels |
| 2 | Toilet Bays – female | | | | | 1 | |
| 3 | Toilet Partition between boys and girls. | | ✓ | | | | Concrete |
| 4 | Shower bay | | ✓ | | | 1 | |
| 5 | Toilet Bays – accessible | | ✓ | | | | Not disable friendly |
| 6 | Entry to toilet building | | ✓ | | | | 1 door |
| 7 | Exit to toilet building | | ✓ | | | | 1 door |
| 8 | Menstrual Hygiene facilities | | | | | | |
| 9 | Students to **WASH** ratio | Toilet taps: 2 | | Male: | 1 | Female | 1 |
| Each student water closet cubicles measured to be 1.6m long and width of 1m. all water closet are operational, shall there be any damages or mis-function, handyman of the school is tasked to execute repairs. All cubicles have swing doors on hinges. Whole floor provided with tiles. | | | | | | | |

[83] Good - No additional works / intervention required
[84] Fair - Remedial works required – min CAT 3 standard
[85] Poor - Demolition and replace with new - min CAT 4 standard
[86] Type of structure - Timber/concrete/steel
[87] Count - Used for identifying number of toilet bays and menstrual hygiene facilities

## Table 25: TOILET BLOCKS (BOYS & GIRLS) AT BUILDING 7

| **Building Index** | **BLOCK 7** | | | | | | |
|---|---|---|---|---|---|---|---|
| **Type:** | **Ground floor:**<br>• **GIRLSTOILET (10 TOILETS, 11 HAND BASIN) – 11.5M x 3M**<br>• **BOYS TOILET (9 TOILET, 10 HAND BASIN, 1 URINAL) – 11.5M x 3M** | | | | | **No. of Levels: 1** | |
| **Dimensions** | **Length (m): 37.5** | | **Width (m): 15.71** | | | **Height (m): 7** | |
| **Existing State of Building** | | | | | | | |
| **REF. No.** | **Building Component** | **Good[88]** | **Fair[89]** | **Poor[90]** | **Structure Type [91]** | **Count [92]** | **Comments** |
| 1 | Toilet Bays – male | | ✓ | | | 9 | With 1 urinal channels |
| 2 | Toilet Bays – female | | | | | 10 | |
| 3 | Toilet Partition between boys and girls. | | ✓ | | | | Concrete |
| 4 | Shower bay | | | | | | |
| 5 | Toilet Bays – accessible | | ✓ | | | | Not disable friendly |
| 6 | Entry to toilet building | | ✓ | | | | 1 door |
| 7 | Exit to toilet building | | ✓ | | | | 1 door |
| 8 | Menstrual Hygiene facilities | | | | | | |
| 9 | Students to **WASH** ratio | Toilet taps: 21 | | Male: | 10 | Female | 11 |

Each student water closet cubicles measured to be 1.6m long and width of 1m. all water closet are operational, shall there be any damages or mis-function, handyman of the school is tasked to execute repairs. All cubicles have swing doors on hinges. Whole floor provided with tiles.

[88] Good - No additional works / intervention required
[89] Fair - Remedial works required – min CAT 3 standard
[90] Poor - Demolition and replace with new - min CAT 4 standard
[91] Type of structure - Timber/concrete/steel
[92] Count - Used for identifying number of toilet bays and menstrual hygiene facilities

## 4) PHOTOGRAPHIC REPORT

## Figure 1: PHOTOGRAPHIC VIEW OF BLOCK 1

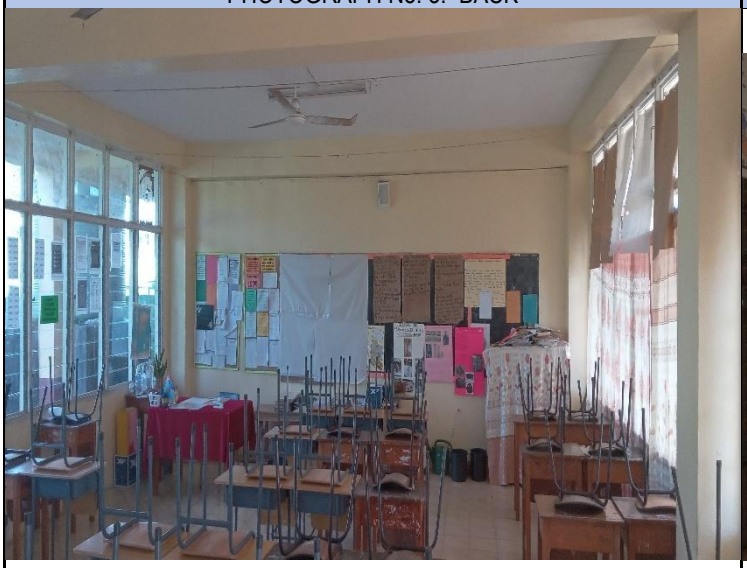
| Client: | TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD | School Name: | BHAWANI DAYAL PRIMARY SCHOOL |
|---|---|---|---|
| Project: | INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL. | Building Index: | BLOCK 1 |


PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: RIGHT SIDE



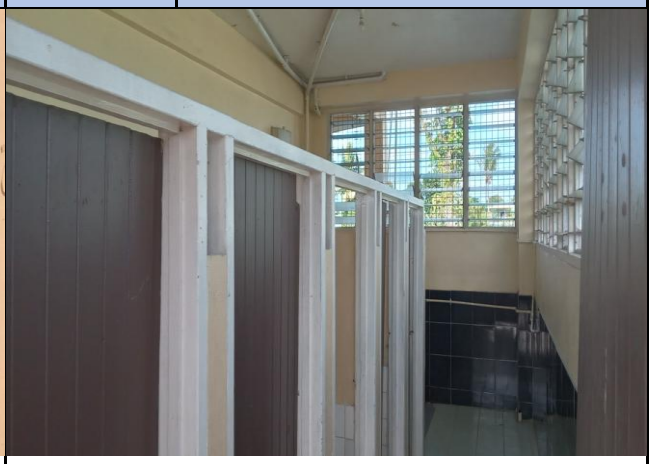
PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: WALKWAY

## Figure 2: PHOTOGRAPHIC VIEW OF TOILET AT BLOCK 1

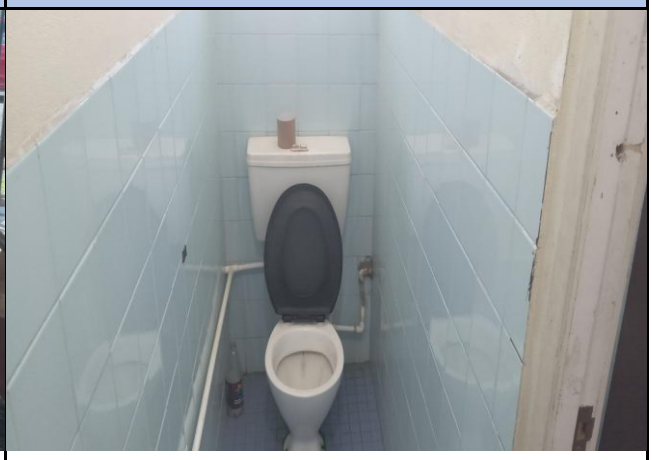
| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 1** |

PHOTOGRAPH No. 1: TOILET AREA IN BLOCK 1

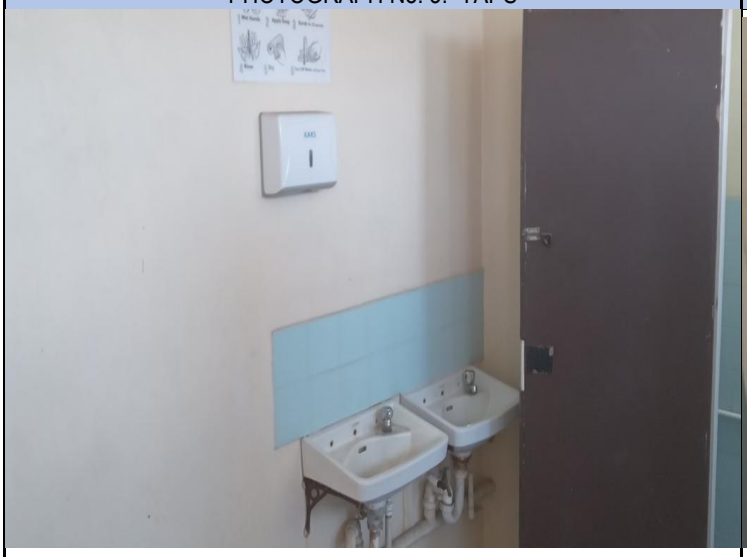


PHOTOGRAPH No. 2: CUBICLES

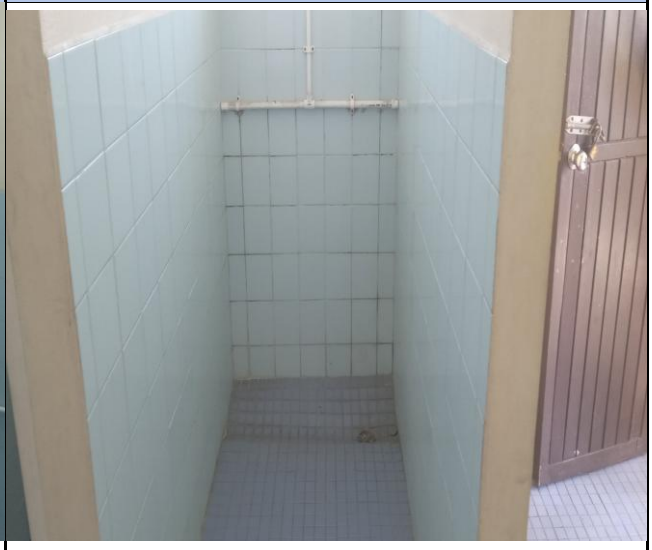
PHOTOGRAPH No. 3: TAPS



PHOTOGRAPH No. 4: TOILET



PHOTOGRAPH No. 5: HAND BASIN



PHOTOGRAPH No. 6: SHOWER

## Figure 3: PHOTOGRAPHIC VIEW OF BLOCK 2

| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 2** |

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: WALKWAY

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: GENERAL TAPS

PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: ROOF

## Figure 4: PHOTOGRAPHIC VIEW OF BLOCK 3

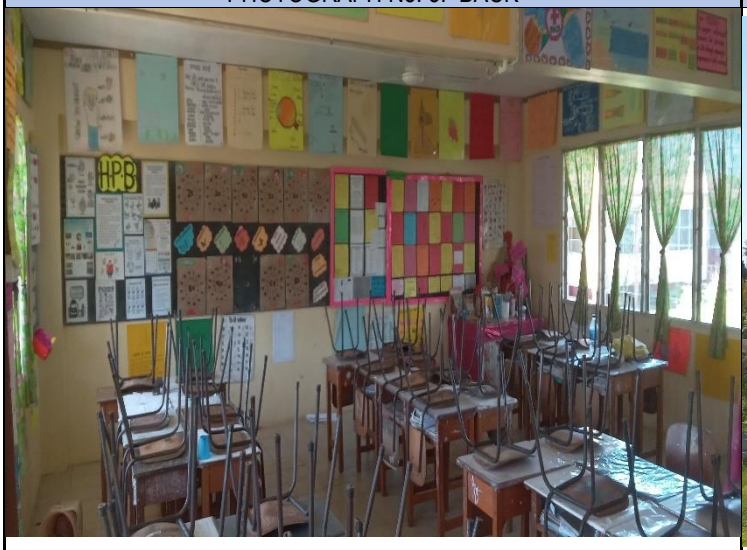
| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 3** |

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: BACK WITH TAPS

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: SIDE



PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: WALKWAY

## Figure 5: PHOTOGRAPHIC VIEW OF TOILET AT BLOCK 4

| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 4** |

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: ROOF

PHOTOGRAPH No. 4: BACK

PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: INTERIOR

## Figure 6: PHOTOGRAPHIC VIEW OF BLOCK 5

| Client: | TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD | School Name: | BHAWANI DAYAL PRIMARY SCHOOL |
|---|---|---|---|
| Project: | INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL. | Building Index: | BLOCK 5 |

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: RIGHT SIDE

PHOTOGRAPH No. 5: WALKWAY

PHOTOGRAPH No. 6: WALKWAY

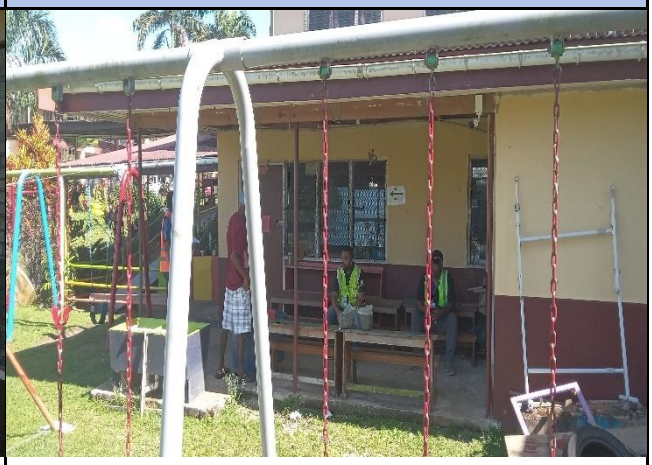
## Figure 7: PHOTOGRAPHIC VIEW OF BLOCK 6

| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 6** |

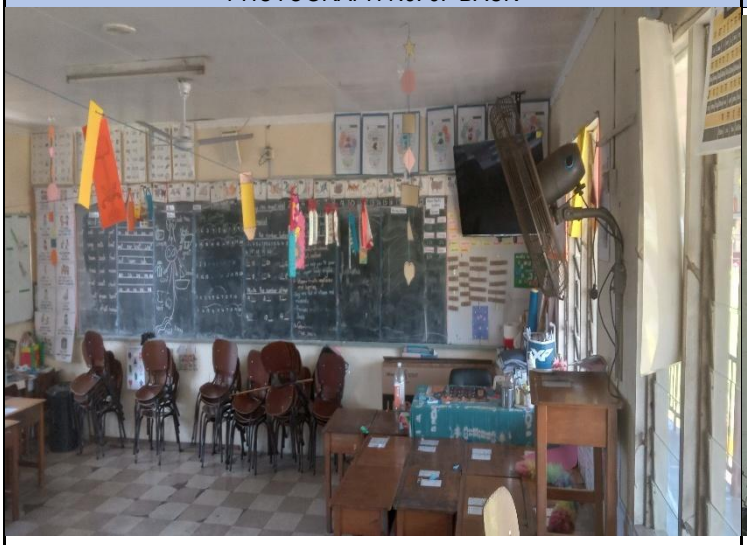
PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK



PHOTOGRAPH No. 4:



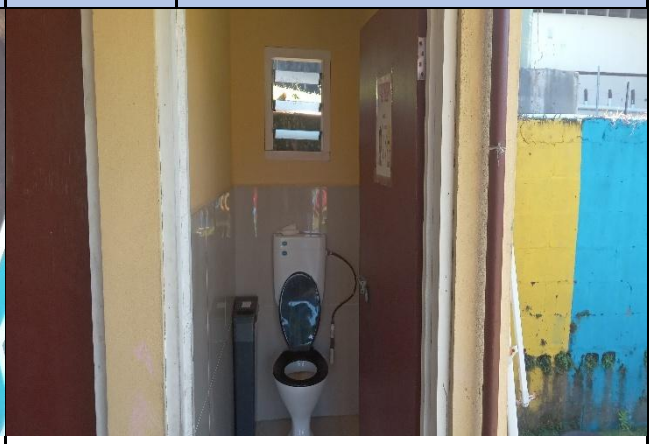
PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: WASH FACILITY

## Figure 8: PHOTOGRAPHIC VIEW OF TOILET AT BLOCK 6

| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 6** |

PHOTOGRAPH No. 1:



PHOTOGRAPH No. 2:

PHOTOGRAPH No. 3:

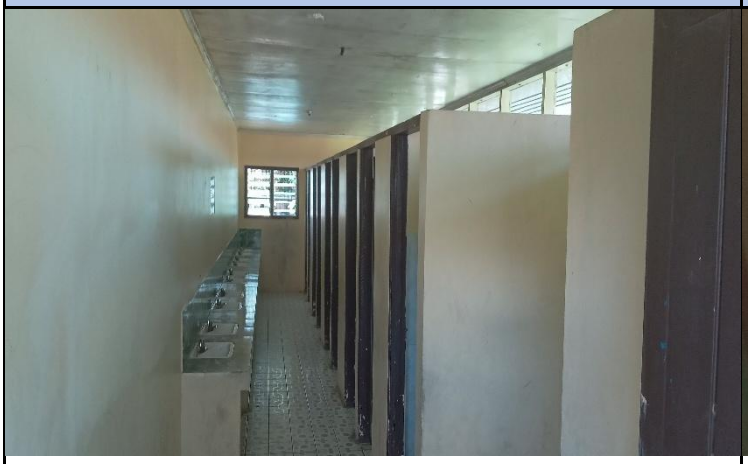
PHOTOGRAPH No. 4:

## Figure 9: PHOTOGRAPHIC VIEW OF TOILET AT BLOCK 7

| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 7** |

PHOTOGRAPH No. 1:

PHOTOGRAPH No. 2:



PHOTOGRAPH No. 3:

PHOTOGRAPH No. 4:

PHOTOGRAPH No. 5:

PHOTOGRAPH No. 6:

## Figure 10: PHOTOGRAPHIC VIEW OF BLOCK 8

| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 8** |

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: FRONT

PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: CLOSER VIEW

## Figure 11: PHOTOGRAPHIC VIEW OF BLOCK 9

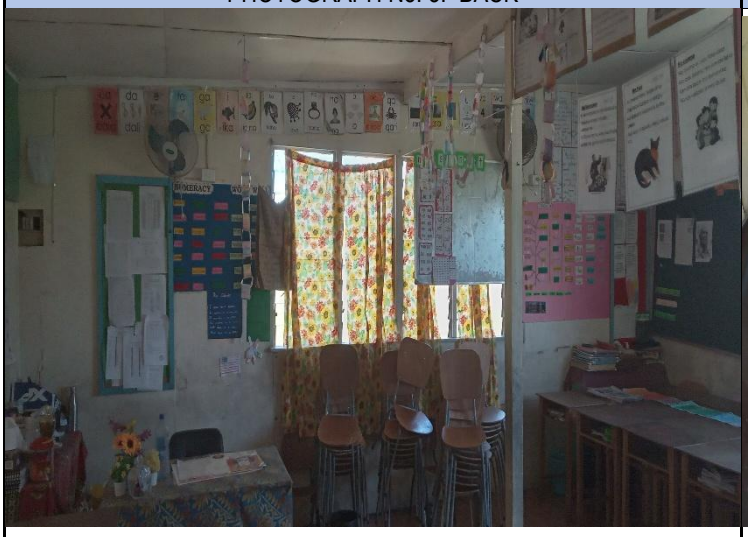
| | | | |
|---|---|---|---|
| **Client:** | **TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD** | **School Name:** | **BHAWANI DAYAL PRIMARY SCHOOL** |
| **Project:** | **INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.** | **Building Index:** | **BLOCK 9** |

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: FRONT



PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: WASH FACILITY

# Appendix B – Excel Scoring Sheet

| | WEIGHTED CRITERIA | | |
|---|---|---|---|
| 1 | **PART A - CLASSROOM OVERCROWDING (40%)**<br>**Classrooms facilitating students beyond room capacity, determined through number of students per classroom and classroom size** | | |
| | Poor - most to all classrooms are accommodating students above capacity. | 32 to 40 | **40** |
| | **Criteria Item Score** | | **40.0** |
| 2 | **PART B - WASH FACILITIES (20%)**<br>**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 | **2** |
| 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** | | **7.0** |
| 3 | **PART C - CONDITION OF INFRASTRUCTURE (20%)**<br>**Building structure and condition of walls, floors, ceilings, overall structural integrity (10%)** | | |
| | Fair - some building structures require more intervention to improve structural integrity and condition. | 6 to 7.9 | **7** |
| 3.1 | **Maintenance and assessment of the upkeep of facilities including painting and repairs (10%)** | | |
| | 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** | | **12.0** |
| 4 | **PART D - DISABILITY ACCESSIBILITY (10%)**<br>**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%)**<br>**Presence and quality of measures for disaster resilience of buildings including structural measures, cyclone shutters and fire safety systems** | | |
| | Fair - some school building structures are not resilient to natural disasters and do not have safety systems in place. | 6 to 7.9 | **7** |
| | **Criteria Item Score** | | **7.0** |
| | **TOTAL CRITERIA SCORE** | | **76.0** |

# 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
CONSULTING ENGINEERS
CIVIL, STRUCTURAL, ELECTRICAL, MECHANICAL & PROJECT MAMAGEMENT
79 RATU MARA ROAD, SAMABULA, SUVA.
P O BOX 1208, SUVA. PHONE: (679) 3313 388, FAX (679) 3302903
EMAIL: info@nrwmacallan.com.fj

SCHOOL NAME:

# Bhawani Dayal Primary School