

THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF AGRICULTURE, LIVESTOCK, LANDS AND IRRIGATION



Integrated Watershed & Water Resources Management Project

PROJECT MANAGEMENT UNIT

PROCUREMENT OF WORKS UNDER OPEN COMPETITIVE BIDDING - NATIONALLY

**Bidding Documents
(Volume 1)**

for

**Establishment of Provincial Groundwater Management Unit-
Jaffna Region for Water Resources Board (Phase-1)**

Contract No: LK-MOMDE-367174-CW-RFB

Issued: 28th July 2026

<i>Bidder Number</i>	
<i>Name</i>	
<i>Address</i>	



MINISTRY OF AGRICULTURE, LIVESTOCK, LANDS AND
IRRIGATION

INVITATION FOR BIDS

**Integrated Watershed and Water Resources Management
Project (IWWRM)**



Project No: P166865, Loan No: IDA-66190-LK

1. The Government of the Democratic Socialist Republic of Sri Lanka has applied for financing from the International Development Association (World Bank) towards the cost of **Integrated Watershed and Water Resources Management Project (IWWRM Project)** and it intends to apply part of the proceeds of this credit to payment under the contracts mentioned in the schedule below.
2. Project Director of IWWRM Project, invites sealed bids from eligible and qualified bidders for the following Construction work under Water Resources Board as given in the Table 01, on behalf of the Chairman, Project Procurement Committee of IWWRM Project.

Table 01

Contract No.	Description of Work/ Contract Period	CIDA Registration / Specialty	Non-Refundable Bid Document Fee (Rs.)	Bid Security and Validity Period	Average annual volume of construction work & the minimum amount of liquid assets and/or credit facilities (Rs.) (With VAT)
LK-MOMDE-367174-CW-RFB	Establishment of Provincial Groundwater Management unit at Jaffna region -Phase 01. (300 Days.)	Grade : and above Specialty : Building Construction	33,000.00	Bid Security Value: Rs.2,730,000.00 Validity: (147 days) Up to 11.01.2027	264 Mn & 55 Mn

3. To be eligible for a contract award, the successful bidder shall not have been blacklisted and shall meet the requirements in the Bidding Document. Further the successful bidder shall have valid registration Grade in Construction Industry Development Authority (CIDA) as mentioned in above Table under the specialty of Building Construction.
4. The Bidding documents may be available for inspection in the [https:// iwwrm.lk/ web/ procurement/ section/ procurement-notices](https://iwwrm.lk/web/procurement/section/procurement-notices) website for references.
5. Interested bidders may obtain further information from **Senior Project Specialist (Procurement & Contract)**, IWWRM Project, 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07 and inspect the bidding documents at the same address given above during 9.00 a.m. to 3.00 p.m. from 28.07.2026 to 17.08.2026 (on working Days) by prior notification. (Contact No: 011-2691163)
6. Prospective Bidders can obtain the Bidding Documents by a written request on a company/firm letter head, addressed to the Project Director, IWWRM Project, 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07. from 28.07.2026 to 17.08.2026 from **09.00 a.m. to 3.00 p.m.** only on working days by **prior notification** (Contact No. 011-2691163), on payment of a non-refundable bid document fee as given above per set of Bidding Documents (Please refer Table: 01 for the amount) on Cash or sending the written request by email to

iwwrmp@sltnet.lk with the scan copy of Bank Payment Slip paid the respective non-refundable bid documents fee to the Integrated Watershed and Water Resources Management Project Bank Account no. of **7042633** at Bank of Ceylon, Hyde Park Branch.

7. The pre-bid meeting and site visits will be conducted as mentioned in table 02. Bidders are requested to inspect the sites with the assistance of the relevant officer.

Table 02

Contract No.	Description of Work	Site visit	Pre bid meeting	Bid Closing and Opening (Date & Time)
LK-MOMDE-367174-CW-RFB	Establishment of Provincial Groundwater Management unit at Jaffna region - Phase 01.	Date: 06.08.2026 Time: 10.00 a.m. Location : No. 665/6, Beach Road, Gurunagar, Jaffna. (GPS :9.651394N,80.023626E)	Date: 07.08.2026 Time: 10.00 a.m. Location : Conference room, IWWRMP/PMU 2nd Floor, Mahaweli Centre Building, No.96, Ananda Coomaraswamy Mawatha, Colombo 07.	Date: 18.08.2026 Time: 02.00 p.m. Location : Conference room, IWWRMP/PMU 2nd Floor, Mahaweli Centre Building, No.96, Ananda Coomaraswamy Mawatha, Colombo 07.

8. All pages of the Bidding Documents shall be signed by the bidder and affixed to his seal.
9. Completed Sealed Bid with **duplicate**, clearly marked the contract name and the number on the top left corner of the envelope may be dispatched either by Registered Post or hand delivered or courier to the **Project Director, IWWRM Project, 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07** as specified in the **Table 02**. Bids will be opened immediately thereafter. Bidders or their authorized representatives, not exceeding two (2) in numbers, are permitted to be present at the opening of bids.

**Project Director,
Integrated Watershed and Water Resources Management Project
2nd Floor, Mahaweli Centre Building,
No.96, Ananda Coomaraswamy Mawatha,
Colombo 07.
27.07.2026**

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VOLUME 2

Drawings

Section - 1

Instructions to Bidders (ITB)

**Available in ICTAD Publication Number ICTAD/SBD/02
Second Edition January 2007**

Instruction to Bidders shall be read in conjunction with Bidding Data under Section 2

Reference Only

Section - 2

Bidding Data

**Available in ICTAD Publication Number ICTAD/SBD/02
Second Edition January 2007**

This section shall be read in conjunction with Section 1 – Instructions to Bidders, and is intended to provide specific information in relation to the corresponding clauses in Section 1. Whenever there is a discrepancy, the provisions in Section 2- Bidding Data shall supersede those provided in the Section 1 – Instruction to Bidders

Reference Only

Section 2 - Bidding Data

Instructions to Bidders Clause Reference	Entry
1.1	Employer's Name and Address Name : Project Director, Integrated Watershed & Water Resources Management Project Address: Project Management Unit , 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07.
1.1	Scope of Works Establishment of Provincial Groundwater Management Unit-Jaffna Region for Water Resources Board (Phase-1) The works consists of i. Building Construction including finishes and services ii. Aluminium Partitioning iii. Related miscellaneous work Located at 665/6, Beach Road, Gurunagar, Jaffna in Jaffna District
1.2	Time for Completion The Time for Completion for the whole of works shall be 300 Calendar Days
2.1	Source of funds The source of funds is <i>International Development Association (IDA) – World Bank</i>
3	Substitute by the following: 3.1 The World Bank requires that the Government of Sri Lanka (including beneficiaries of World Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of World Bank-financed contracts, and refrain from Fraud and Corruption. 3.2 The World Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth below. 3.3 In pursuance to this policy, The World Bank: a. Defines, for the purposes of this provision, the terms set forth below as follows: i. “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the

	actions of another party; ii. “fraudulent practice” is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation; iii. “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; iv. “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party; v. “obstructive practice” is: a. deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a World Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or b. acts intended to materially impede the exercise of the World Bank’s inspection and audit rights provided for under paragraph 3.4 below. b. rejects a proposal for award if the World Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its subconsultants, sub-contractor, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question; c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring mis-procurement, if the World Bank determines at any time that representatives of the Government of Sri Lanka or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without taking timely and appropriate action satisfactory to the World Bank to address such practices when they occur, including by failing to inform the World Bank in a timely manner at the time they knew of the practices; d. Sanctions, pursuant to the World Bank’s Anti-Corruption Guidelines and in accordance with its prevailing sanctions policies and procedures as set forth in the WBG’s Sanctions Framework any firm or individual – determined at any time by the World Bank to have engaged in Fraud and Corruption in connection with the procurement process, selection and/or execution of a World Bank-financed contract; e. Requires that, for World Bank-financed operations to be implemented utilizing national procurement arrangements, as well as PPPs, agreed by the World Bank, bidders (applicants/proposers) and consultants submitting bids/proposals will be required to accept the application of, and agree to comply with, the Anti-Corruption Guidelines during the procurement process, selection and/or contract execution, including the World Bank’s right to sanction as set
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	forth in paragraph 2.2 d., and the World Bank’s inspection and audit rights as set forth in paragraph 3.4. The Employer shall consult and apply the World Bank Group’s lists of firms and individuals suspended or debarred. In the event the Employer signs a contract with a firm or an individual suspended or debarred by the World Bank Group, the World Bank does not finance the related expenditures and may apply other remedies as appropriate; and g. Requires that, when a United Nations (UN) agency is selected to provide goods, works, non-consulting services and technical assistance, the above provisions regarding sanctions on Fraud and Corruption shall apply in their entirety to all contractors, consultants, sub-contractors, sub-consultants, service providers, suppliers, and their employees, that signed contracts with the UN agency. 3.4 In further pursuance of this policy, Bidders shall permit and shall cause its agents (whether declared or not), sub-contractors, sub-consultants, service providers, or suppliers and any personnel thereof, to permit the World Bank to inspect all accounts, records and other documents relating to any prequalification process, bid submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the World Bank.
4.1	Qualification Information The following information shall be provided in Section 9 - Schedules: • ICTAD registration - Registration number - Grade - Specialty - Expiry date • VAT registration number • Attach construction program • Attach legal status (Sole proprietor, Partnership, Company etc.) • Attach authentication for signatory • Total Monetary value of Construction work performed for each of the five years • Experience in works of a similar nature and complexity in last 10 years • Major items of Construction equipment • The Bidder shall submit audited financial statements for any five (5) years selected from the last ten (10) years, representing the Bidder’s best-performing years in terms of financial performance. The submitted financial statements shall demonstrate a positive cash flow during the selected years. Bidders with negative cash flow shall be considered non-responsive and rejected. • Proof for at least Rs. 55 Mn Liquid Assets/ Credit Facilities • Staff to be attend in full time basis • Attach Work plan and methods.
4.1 (c)	The bidders shall submit VAT Registration Certificate issued by the Department of Inland Revenue (If a VAT registered entity)

4.2 (a)	CIDA registration required. The registration required; Specialty: Building Construction Grade: C4 or above																															
4.2 (b)	The Bidder shall have an average annual volume of construction works performed of not less than LKR 264 million during the last ten (10) years.																															
4.2 (c)	The Bidder shall demonstrate experience as a Prime Contractor by having successfully completed at least one (1) contract of a similar nature and complexity, with a contract value of not less than LKR 93 million (excluding VAT), within the last ten (10) years prior to the bid submission deadline.																															
4.2 (d)	Essential equipment Proposals for the timely acquisition (own, lease, hire, etc.) of the following essential equipment shall be; <table><tr><th>No.</th><th>Equipment Type and Characteristics</th><th>Min. Number Required</th></tr><tr><td>1</td><td>Crawler excavator - 30 PC</td><td>1</td></tr><tr><td>2</td><td>Concrete mixers 1 m³</td><td>1</td></tr><tr><td>3</td><td>Tractor with trailers or 1 cube Trailer</td><td>1</td></tr><tr><td>4</td><td>Porker vibrators</td><td>1</td></tr><tr><td>5</td><td>Mobile Generator</td><td>1</td></tr><tr><td>6</td><td>Jumping Rammmer</td><td>1</td></tr><tr><td>7</td><td>Water pump 2 inch dia</td><td>1</td></tr><tr><td>8</td><td>Moisture Moist</td><td>1</td></tr></table>					No.	Equipment Type and Characteristics	Min. Number Required	1	Crawler excavator - 30 PC	1	2	Concrete mixers 1 m ³	1	3	Tractor with trailers or 1 cube Trailer	1	4	Porker vibrators	1	5	Mobile Generator	1	6	Jumping Rammmer	1	7	Water pump 2 inch dia	1	8	Moisture Moist	1
No.	Equipment Type and Characteristics	Min. Number Required																														
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7	Water pump 2 inch dia	1																														
8	Moisture Moist	1																														
4.2 (e)	Qualifications and experience of the Project Manager and other Key personnel <table><tr><th>Key personnel</th><th>Qualifications</th><th>No. of Position</th><th>Experience</th><th>Similar work Experience</th></tr><tr><td>1. Project Manager (Full Time)</td><td>B.Sc. (Civil Engineering) degree or equivalent</td><td>1</td><td>07 yrs</td><td>05 yrs</td></tr><tr><td>2. Site Engineer (Full time)</td><td>B.Sc. (Civil Engineering) degree or equivalent</td><td>1</td><td>05 yrs</td><td>03yrs</td></tr><tr><td>3. MEP Technical Officer (Full Time)</td><td>NCT or equivalent</td><td>1</td><td>05yrs</td><td>03yrs</td></tr><tr><td>4. Environmental and Social Officer (Full</td><td>Degree or equivalent qualification in</td><td>1</td><td>03 yrs</td><td>03 yr</td></tr></table>					Key personnel	Qualifications	No. of Position	Experience	Similar work Experience	1. Project Manager (Full Time)	B.Sc. (Civil Engineering) degree or equivalent	1	07 yrs	05 yrs	2. Site Engineer (Full time)	B.Sc. (Civil Engineering) degree or equivalent	1	05 yrs	03yrs	3. MEP Technical Officer (Full Time)	NCT or equivalent	1	05yrs	03yrs	4. Environmental and Social Officer (Full	Degree or equivalent qualification in	1	03 yrs	03 yr		
Key personnel	Qualifications	No. of Position	Experience	Similar work Experience																												
1. Project Manager (Full Time)	B.Sc. (Civil Engineering) degree or equivalent	1	07 yrs	05 yrs																												
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3. MEP Technical Officer (Full Time)	NCT or equivalent	1	05yrs	03yrs																												
4. Environmental and Social Officer (Full	Degree or equivalent qualification in	1	03 yrs	03 yr																												

	Time)	Relevant field			
	5. Health and Safety Officer (Full time)	Degree or equivalent qualification in Relevant field	1	03 yrs	03 yr
	5.Engineering Assistant (Civil) (Full time)	NDT (Civil Engineering) or equivalent	1	05 yrs	03 yr
	6. Quantity Surveyor (Full time)	NCT – Quantity Surveying or equivalent	1	05 yrs	03 yr
	7. Work Supervisor (Full time)	NCT – Civil or equivalent	2	05 yrs	03 yr
	The Bidder must demonstrate that it will have suitably qualified Project Manager and suitably qualified other key personnel in adequate numbers, as described in the table above.				
4.2 (f)	Liquid assets and/or credit facilities required. The minimum amount of liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, shall be not less than Rs.50 Million				
8.3	The employer may conduct a site visit concurrently with the pre-bid meeting referred to in Clause 19. The site visit will be conduct as follow. Date: 06 th August, 2022 Time: 10.00a.m. Commencing Venue: No.665/6, Beach Road, Gurunagar, Jaffana.				
10.1	Clarification of Bidding Documents Deadline for Clarification requests : 12th August 2026 Employer's address for clarification of bidding documents is: Name of Officer: Senior Project Specialist (Procurement & Contract), Integrated Watershed & Water Resources Management Project Address: Project Management Unit , 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07. Phone: 0112691163 E-mail: iwwrmp@sltnet.lk .				

13.1(A) (j) 13.1(B) (d)	The Bidder shall submit the following additional documents in its Bid: Code of Conduct (ESHS) The Bidder shall submit its Code of Conduct that will apply to Contractor’s Personnel (as defined in Sub-clause 1.1.2.7 of the GC), to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract. <i>[Note: Complete and include the risks to be addressed by the Code in accordance with Schedule 10, e.g. risks associated with: labor influx, spread of communicable diseases, sexual harassment, gender-based violence, sexual exploitation and abuse, illicit behavior and crime, and maintaining a safe environment etc.]</i> In addition, the Bidder shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches. The Contractor shall be required to implement the agreed Code of Conduct. Management Strategies and Implementation Plans (MSIP) to manage the (ESHS) risks The Bidder shall submit Management Strategies and Implementation Plans (MSIP) to manage the following key Environmental, Social, Health and Safety (ESHS) risks. The Contractor shall be required to submit for approval, and subsequently implement, the Contractor’s Environment and Social Management Plan (C-ESMP), in accordance with the Particular Conditions of Contract Sub-Clause 4.1, that includes the agreed Management Strategies and Implementation Plans described here. <i>[Note: The extent and scope of these requirements should reflect the significant ESHS risks or requirements set out in Schedule 10 as advised by Environmental/Social specialist/s. The key risks to be addressed by the Bidder should be identified by Environmental/Social specialist/s, for example, from the Environmental and Social Impact Assessment (ESIA), Environmental and Social Management Plan (ESMP), Resettlement Action Plan (RAP), and/or Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project), up to a maximum of four. The risks may arise during mobilization or construction phases, and may include construction traffic impacts on the community, pollution of drinking water, depositing on private land and impacts on rare species etc. The management strategies and/or implementation plans to address these could include, as appropriate: mobilization strategy, strategy for obtaining consents/permits, traffic management plan, water resource protection plan, bio-diversity protection plan and a strategy for marking and respecting work site boundaries etc.]</i>
14.4	Adjustments for change in cost The Contract is subjected to price adjustment
15.1	Currency of Bid Rates and prices shall be quoted by the bidders entirely in Sri Lankan rupees.
16.1	Period of Bid validity: The Bid shall be valid up to 119 days from the bid submission deadline date. 15th December 2026

17.1	Amount of Bid security: The amount of Bid Security is: Rs. 2,730,000.00 The Bid security shall, be in the form of an unconditional bank guarantee issued from a reputed bank recognized by the Central Bank of Sri Lanka and a bank located in Sri Lanka. The format of the bid security should be in accordance with the specimen form of bid security included in the bidding documents (Section 11).
17.2	Validity of Bid Security The Bid Security shall be valid up to 147 days from the date of closing of the bids. 11th January 2027.
17.5	The bid security of the successful bidder will be returned when the bidder has signed the Agreement and furnished the required Performance Securities including the Environmental, Social, Health and Safety (ESHS) Performance Security pursuant to ITB 35.1.
17.6 (c) (ii)	Furnish the required Performance Securities including the Environmental, Social, Health and Safety (ESHS) Performance Security pursuant to ITB 35.1.
19.1	Pre-Bid meeting Pre-Bid meetings <i>will be held</i> Venue, time, and date of the pre-bid meeting are as follows. Date: 07th August 2026 Time: 10.00 a.m. Venue: Conference Room, IWWRM/PMU, 2nd Floor, Mahaweli Center Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07.
21.2 (a)	Employer's Address for Bid Submission Employer's Address for the purpose of bid submission is: Project Director, Integrated Watershed & Water Resources Management Project, Project Management Unit, Project Monitoring Unit, 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07.
21.2 (b)	Identification number of Contract Identification Number of the Contract is: LK-MOMDE-367174-CW-RFB
22.1	Deadline for submission of Bids Deadline for submission of Bids: 18th August 2026 Time: 2.00 p.m.

25.1	Bid opening. Venue, time, and date of bid opening. Venue: Integrated Watershed & Water Resources Management Project, Project Management Unit , 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07. Time : 2.00 p.m. Date : 18.08.2016
31.1	Preference for Domestic Bidders: Not Applicable
32	If the Procurement is within the authority limit of PPC: After evaluation of Bids in accordance with the procedures described under Clauses 28, 29, 30 and 31, the Employer will inform to all the bidders in writing the selection of the successful bidder and the intention of contract award to such bidder. The unsuccessful bidders if they so wish, within one week of such notice may make representation to the Secretary to the Line Ministry at the address given below. Such representation shall be self-contained to enable the Secretary to arrive at a conclusion and a cash deposit to amount given below shall be made. The Employer may request the bidder who had made representation to submit further evidence during the investigation of such representation. The cash deposit will be forfeited unless the Employer has changed the original contract award decision in favour of the bidder who has made such representation. Address: Cash Deposit: Rupees 10,000/-
35.1	Amount of Performance Security The Standard Form of Performance Security acceptable to the Employer shall be a Guarantee from an Agency accepted and stated in the Procurement Guidelines. The amount of the Performance Security is 7% of the Initial Contract Price. The Performance Security shall be valid until 28 Days beyond the Time for Completion (date). In addition, the successful Bidder shall submit an Environmental, Social, Health and Safety (ESHS) Performance Security within 14 Days of receipt of the Letter of Acceptance. The amount of the Environmental, Social, Health and Safety (ESHS) Performance Security is 3% of the initial Contract Price. The Environmental, Social, Health and Safety (ESHS) Performance Security shall be valid until 28 days beyond the defects liability period (date). Performance Guarantee shall only be an unconditional guarantee issued by a bank recognized by the Central Bank of Sri Lanka in accordance with the format given.

Section 2 – Bidding Data

	Additionally Performance Guarantees will be Added up to 10% on the Situation Where the Evaluated Price Having Considerable Gap, Which Would be Decided by PE.
37	Fees and types of reimbursable expenses to be paid to the Adjudicator shall be on a case to case basis and shall be shared equally by the Contractor and the Employer.

Reference Only

Section - 3

Conditions of Contract

**Available in ICTAD Publication Number ICTAD/SBD/02
Second Edition January 2007**

Condition of Contract shall be read in conjunction with the
Section 4 – Contract Data

Section - 4

Contract Data

This section shall be read in conjunction with Section 3 – Condition of Contract, and is intended to provide specific information in relation to corresponding clauses in Section 3. Whenever there is a discrepancy, the provisions in Section 4 - Contract Data shall supersede those provided in the Section 3 – Condition of Contract.

Reference Only

Section 4 – Contract Data

Conditions of Contract Clause Number/s		
1.1.2.2 & 1.3	Employer's name and address	Name : Project Director, Integrated Watershed & Water Resources Management Project Address: Project Management Unit , 2 nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07.
	Employer's Representative name and address	Name : Chairman, Water Resources Board. Address: 488/A, Nawala Road, Koswatta, Rajagiriya
1.3	Contractor's name and address	Name: Address:
1.1.2.4 & 1.3	Engineer's name and address	Name: Sri Lanka Land Development Corporation Address : No. 03, Sri Jayawardenapura Mawatha, Welikada, Rajagiriya.
	Engineer's Representative name and address	Name: Authorized representative from Sri Lanka Land Development Corporation Address: Sri Lanka Land Development Corporation, No. 03, Sri Jayawardenapura Mawatha, Welikada, Rajagiriya.
1.1.2.5	Key Personnel	
Contractor's Personnel	The following is added at the end of the sub-clause: "Contractor's Personnel includes Key Personnel as named in the Contract."	
1.1.2.5 Contractor's Representative	Name:..... Address:.....	
1.1.2.9	Replace existing Clause 1.1.2.9 with following: "Dispute Adjudication Board" (DAB) means three persons appointed under Sub-Clause 19.2 [Appointment of the Dispute Adjudication Board] or Sub-Clause 19.3 [Failure to Agree on the Composition of the Dispute Adjudication Board] of the Conditions of Contract.	

1.1. 3.3	Time for Completion of the Works	Time for Completion is 300 <i>calendar Days from the commencement date.</i>
1.1.3.7	Defects Notification Period	Defects Notification Period is 365 Days
1.1.6.8	The following is added after Sub-Clause 1.1.6.7 “ESHS” means environmental, social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV)), health and safety.	
2. 1	Right to access to the Site	14 Days after Letter of Acceptance
3.1	Engineer’s Duties and Authority	The Engineer shall obtain the specific approval of the Employer before taking action under the following Sub-Clauses of these Conditions: (a) Clause 13 (Variations and Adjustments) – The Engineer shall obtain approval from the Employer. (b) Clause 8.4 (Extension of Time for completion) – The Engineer shall recommend the EOT and shall obtain approval from the Employer.
4.1 Contractor’s General Obligations	Insert in the fifth paragraph after the words “<i>The Contractor shall, whenever required by the Engineer, submit details of the arrangements and methods which the Contractor proposes to adopt for the execution of the Works.</i>” “Notwithstanding Sub-Clause 8.1, the Contractor shall not carry out any Works, including mobilization and/or pre-construction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits), unless the Engineer is satisfied that appropriate measures are in place to address environmental, social, health and safety risks and impacts. At a minimum, the Contractor shall apply the Management Strategies and Implementation Plans and Code of Conduct, submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit, on a continuing basis, for the Engineer’s prior approval, such supplementary Management Strategies and Implementation Plans as are necessary to manage the ESHS risks and impacts of ongoing works. These Management Strategies and Implementation Plans collectively comprise the Contractor’s Environmental and Social Management Plan (C-ESMP). The C-ESMP shall be approved prior to the commencement of construction. The approved C-ESMP shall be reviewed, periodically (but not less than every six (6) months), and updated in a timely manner, as required, by the Contractor to ensure that it contains measures appropriate to the Works activities to be undertaken. The updated C-ESMP shall be subject to prior approval by the Engineer.	

4.2	Amount of Performance Security	7% of the Initial Contract Price, in the currencies and proportions in which the Contract Price is payable. The acceptable form is Unconditional Guarantee. Performance Security shall only be an unconditional guarantee issued by a bank recognized by the Central Bank of Sri Lanka in accordance with the format given and shall be valid for a period including construction period, Defect Liability period and additional 28 days.
4.2 Performance Security	Add the following. In addition to the performance security described above, the Contractor shall obtain Environmental, Social, Safety and Health (ESHS) Performance Security for compliance with the Contractor’s ESHS obligations, for 3% of Initial Contract Price. The Contractor shall deliver ESHS Performance Security to the Employer within 14 days after receiving the Letter of Acceptance and shall send a copy to the Engineer. The ESHS Performance Security shall only be an unconditional guarantee issued by a bank recognized by the Central Bank of Sri Lanka in accordance with the format given and shall be valid for a period including construction period, Defect Liability period and additional 28 days. The Contractor shall ensure that the ESHS Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects. If the terms of the ESHS Performance Security specify its expiry date, the Contractor has not become entitled to receive the Performance Certificate (which, if applicable, includes satisfactory performance of the ESHS obligations), by the date 28 days prior to the expiry date. The Contractor shall extend the validity of the ESHS Performance Security until the Works have been completed and any defects have been remedied. The Employer shall return the ESHS Performance Security to the Contractor within 21 days after receiving a copy of the Performance Certificate.	

4.14 Progress Reports	Sub-Clause 4.14 (g) is replaced by the following: “4.14 (g) the Environmental, Social, Health and Safety (ESHS) metrics set out in Appendix B” At the end of, and as part of Sub-Clause 4.14 add a new paragraph as follows: “The Contractor shall provide immediate notification to the Engineer of incidents in the following categories. Full details of such incidents shall be provided to the Engineer within the timeframe agreed with the Engineer. (a) confirmed or likely violation of any law or international agreement; (b) any fatality or serious (lost time) injury; (c) significant adverse effects or damage to private property (e.g. vehicle accident, damage from fly rock, working beyond the boundary) (d) major pollution of drinking water aquifer or damage or destruction of rare or endangered habitat (including protected areas) or species; or (e) any allegation of gender-based violence (GBV), sexual exploitation or abuse, sexual harassment or sexual misbehavior, rape, sexual assault, child abuse, or child neglect, or other violations involving children.
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Reference Only

6.8 Contractor's Personnel	Key Personnel				
	Key personnel	Qualifications	No. of Positions	Experience	Similar work Experience
	1. Project Manager (Full Time)	B.Sc. (Civil Engineering) degree or equivalent	1	07 yrs	05 yrs
	2. Site Engineer (Full time)	B.Sc. (Civil Engineering) degree or equivalent	1	05 yrs	03yrs
	3. MEP Technical Officer (Full Time)	NCT or equivalent	1	05yrs	03yrs
	4. Environmental and Social Officer (Full Time)	Degree or equivalent qualification in Relevant field	1	03 yrs	03 yr
	5. Health and Safety Officer (Full time)	Degree or equivalent qualification in Relevant field	1	03 yrs	03 yr
	5.Engineering Assistant (Civil) (Full time)	NDT (Civil Engineering) or equivalent	1	05 yrs	03 yr
	6. Quantity Surveyor (Full time)	NCT – Quantity Surveying or equivalent	1	05 yrs	03 yr
	7. Work Supervisor (Full time)	NCT – Civil or equivalent	2	05 yrs	03 yr

6.8 Contractor's Personnel	Key Personnel Sub-Clauses 6.8 (d) is amended by inserting “or” at the end: “6.8 (d).....; or” Sub-Clauses 6.8 (e) is inserted as follows: “6.8 (e) undertakes behavior which breaches the Code of Conduct (ESHS) (e.g. spreading communicable diseases, sexual harassment, gender-based violence, (GBV), sexual exploitation or abuse, illicit activity or crime).” After the sentence: “<i>If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.</i>” the following is added as a new paragraph: “The Contractor’s Personnel includes Key Personnel. If the Contractor intends to replace a Key Personnel, the Contractor shall, not less than 30 days before the intended date of replacement, give notice to the Engineer, the name, address, academic qualifications and relevant experience of the intended replacement Key Personnel. The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Key Personnel or appoint a replacement.”	
8.7	Liquidated damages for the Works	0.05 % of the Initial Contract Price per Day
8.7	Maximum amount of liquidated damages	5 % of the Initial Contract Price
12.2 (b)	Method of Measurement	The Method of Measurement shall be as described in Pricing preambles of the Bills of Quantities

13.3 Variation procedure	Sub-Clause 13.3. (a) is replaced with the following: “(a) a description of the proposed work to be performed, a programme for its execution and sufficient ESHS information to enable an evaluation of ESHS risks and impacts;”	
13.3 Variation procedure	Add the following to the end of the existing Clause. “When fixing the new rates, markup for overheads and profits shall be 16% of the basic cost of such items. The basic cost means cost of materials, labour , equipment and miscellaneous items.”	
13.4(b) (ii)	Percentage for adjustment of Provisional Sums	10 %
13.7	Weightings of Inputs	The input Percentages table will be provided to the Bidders by an Addendum. Nonadjustable element shall be: will be provided to the Bidders by an Addendum.
14.2	Total Advance Payment	Payment, equivalent to 20% of the Initial Contract Price (excluding provisional sums and contingencies), will be made upon the submission of the “Un conditional On Demand” Advanced Guarantee which is obtained from the Bank registered under Central Bank, Sri Lanka.
14.2 (b)	Number and Timing of Installments	Replace the existing Clause with the following. “Recovery will be 23% of the cumulative total amount applicable for GCC 14.3 (a) and (b) .”
14.3(c)	Percentage of retention	10 % of the cumulative total amount applicable for GCC 14.3 (a) and (b).
14.3(c)	Limit of Retention Money	5% of the Initial Contract Price
14.5	Minimum amount of Interim Payment Certificates.	5% of the Initial Contract Price

14.5 Issue of Interim Payment Certificate	The following is added to the third paragraph as (c): i. if the Contractor was, or is, failing to perform any ESHS obligations or work under the Contract, the value of this work or obligation, as determined by the Engineer, may be withheld until the work or obligation has been performed, and/or the cost of rectification or replacement, as determined by the Engineer, may be withheld until rectification or replacement has been completed. Failure to perform includes, but is not limited to the following: a) failure to comply with any ESHS obligations or work described in the Works' Requirements which may include: working outside site boundaries, excessive dust, failure to keep public roads in a safe usable condition, damage to offsite vegetation, pollution of water courses from oils or sedimentation, contamination of land e.g. from oils, human waste, damage to archeology or cultural heritage features, air pollution as a result of unauthorized and/or inefficient combustion; b) failure to regularly review C-ESMP and/or update it in a timely manner to address emerging ESHS issues, or anticipated risks or impacts; c) failure to implement the C-ESMP, g. failure to provide required training or sensitization; d) failing to have appropriate consents/permits prior to undertaking Works or related activities; e) failure to submit ESHS report/s (as described in Appendix B), or failure to submit such reports in a timely manner; f) Failure to implement remediation as instructed by the Engineer within the specified timeframe (e.g. remediation addressing non-compliance).		
14.8	<table border="1"> <tr> <td> Alternative method for Payment of Retention </td><td> On reaching the limit of retention, stated in the Contract Data under Sub-Clause 14.3, the Contractor may substitute second half of the retention money with an unconditional guarantee acceptable to the Employer to a value equal to the second half of the retention money, and valid up to 28 Days beyond the end of Defect Notification Period. On receipt of such guarantee the Employer shall repay the second half amount of retention money. The guarantee will be released to the Contractor upon the certification of the Engineer that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected. </td></tr> </table>	Alternative method for Payment of Retention	On reaching the limit of retention, stated in the Contract Data under Sub-Clause 14.3, the Contractor may substitute second half of the retention money with an unconditional guarantee acceptable to the Employer to a value equal to the second half of the retention money, and valid up to 28 Days beyond the end of Defect Notification Period. On receipt of such guarantee the Employer shall repay the second half amount of retention money. The guarantee will be released to the Contractor upon the certification of the Engineer that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.
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18.1 and 18.2	Insurance	This Amount of insurance per occurrence is: <table border="1"> <thead> <tr> <th></th><th>Minimum Insurance Amount</th><th>Maximum Deductible</th></tr> </thead> <tbody> <tr> <td>(a) for the works, Plant and materials:</td><td>115% of the Initial contract Price</td><td>Rs 50,000/-</td></tr> <tr> <td>(b) For loss or damage to equipment</td><td>Replacement value of the Equipment</td><td>Rs 50,000/-</td></tr> <tr> <td>(c) for losses or damage to property (except the works, plant, Materials, and Equipment) in connection with Contract</td><td>Rs 1.0 million per event and Aggregate amount up to Rs 10.0 million</td><td>Rs 50,000/-</td></tr> <tr> <td>(d) for personal injury or death: (i) of the Contractor's employees per event</td><td>Rs 1,000,000 per person and Aggregate amount up to Rs 10.0 million</td><td>No Deductible</td></tr> <tr> <td>(ii) of other people per event</td><td>Rs 1,000,000 per person and Aggregate amount up to Rs 10.0 million</td><td>No Deductible</td></tr> </tbody> </table> The cost of all deductibles provided in the submitted insurance policy shall be borne by the Contractor.		Minimum Insurance Amount	Maximum Deductible	(a) for the works, Plant and materials:	115% of the Initial contract Price	Rs 50,000/-	(b) For loss or damage to equipment	Replacement value of the Equipment	Rs 50,000/-	(c) for losses or damage to property (except the works, plant, Materials, and Equipment) in connection with Contract	Rs 1.0 million per event and Aggregate amount up to Rs 10.0 million	Rs 50,000/-	(d) for personal injury or death: (i) of the Contractor's employees per event	Rs 1,000,000 per person and Aggregate amount up to Rs 10.0 million	No Deductible	(ii) of other people per event	Rs 1,000,000 per person and Aggregate amount up to Rs 10.0 million	No Deductible
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	In the following sub-clauses the term “Performance Security” is replaced with: “Performance Security and, if applicable, an Environmental, Social, Health and Safety (ESHS) Performance Security”: 2.1- Right of Access to the Site 14.2- Advance Payment 14.5- Issue of Interim Payment Certificate 14.11- Discharge 15.5- Employer's Entitlement to Termination for Convenience 16.4(a)- Payment on termination”																			

APPENDIX TO CONTRACT DATA

APPENDIX A

A General Conditions of Dispute Adjudication Agreement

1. Definitions

Each “Dispute Adjudication Agreement” is a tripartite agreement by and between:

- (a) the “Employer”;
- (b) the “Contractor”; and
- (c) the “Member” who is defined in the Dispute Adjudication Agreement as being one of the three persons who are jointly called the “DAB” (or “Dispute Adjudication Board”) and, where this is the case, the other two persons are called the “Other Members.”

The Employer and the Contractor have entered (or intend to enter) into a contract, which is called the “Contract” and is defined in the Dispute Adjudication Agreement, which incorporates this Appendix. In the Dispute Adjudication Agreement, words and expressions which are not otherwise defined shall have the meanings assigned to them in the Contract.

2. General Provisions

Unless otherwise stated in the Dispute Adjudication Agreement, it shall take effect on the latest of the following dates:

- (a) the Commencement Date defined in the Contract,
- (b) when the Employer, the Contractor and the Member have each signed the Dispute Adjudication Agreement, or
- (c) when the Employer, the Contractor and each of the Other Members have respectively each signed a Dispute Adjudication Agreement.

This employment of the Member is a personal appointment. At any time, the Member may give not less than 70 Days notice of resignation to the Employer and to the Contractor, and the Dispute Agreement shall terminate upon the expiry of this period.

3. Warranties

The Member warrants and agrees that he/she is and shall be impartial and independent of the Employer, the Contractor and the Engineer. The Member shall promptly disclose, to each of them and to the Other Members, any fact or circumstance which might appear inconsistent with his/her warranty and agreement of impartiality and independence.

When appointing the Member, the Employer and the Contractor relied upon the Member’s representations that he/she is:

- (a) experienced in the work which the Contractor is to carry out under the Contract,
- (b) experienced in the interpretation of contract documentation, and
- (c) fluent in the language for communications defined in the Contract.

4. General Obligations of the Member

The Member shall:

- (a) have no interest financial or otherwise in the Employer, the Contractor or Engineer, nor any financial interest in the Contract except for payment under the Dispute Adjudication Agreement;
- (b) not previously have been employed as a consultant or otherwise by the Employer, the Contractor or the Engineer, except in such circumstances as were disclosed in writing to the Employer and the Contractor before they signed the Dispute Adjudication Agreement;
- (c) have disclosed in writing to the Employer, the Contractor and the Other Members, before entering into the Dispute Adjudication Agreement and to his/her best knowledge and recollection, any professional or personal relationships with any director, officer or employee of the Employer, the Contractor or the Engineer, and any previous involvement in the overall project of which the Contract forms part;
- (d) not, for the duration of the Dispute Adjudication Agreement, be employed as a consultant or otherwise by the Employer, the Contractor or the Engineer, except as may be agreed in writing by the Employer, the Contractor and the Other Members;
- (e) comply with the annexed procedural rules and with Sub-Clause 19.4 (Obtaining Dispute Adjudication Board's Decision) of the Conditions of Contract;
- (f) not give advice to the Employer, the Contractor, the Employer's Personnel or the Contractor's Personnel concerning the conduct of the Contract, other than in accordance with the annexed procedural rules;
- (g) not while a Member enter into discussions or make any agreement with the Employer, the Contractor or the Engineer regarding employment by any of them, whether as a consultant or otherwise, after ceasing to act under the Dispute Adjudication Agreement;
- (h) ensure his/her availability for all site visits and hearings as are necessary;
- (i) become conversant with the Contract and with the progress of the Works (and of any other parts of the project of which the Contract forms part) by studying all documents received which shall be maintained in a current working file;
- (j) treat the details of the Contract and all the DAB's activities and hearings as private and confidential, and not publish or disclose them without the prior written consent of the Employer, the Contractor and the Other Members; and
- (k) be available to give advice and opinions, on any matter relevant to the Contract when requested by both the Employer and the Contractor, subject to the agreement of the Other Members.

5. General Obligations of the Employer and the Contractor

The Employer, the Contractor, the Employer's Personnel and the Contractor's Personnel shall not request advice from or consultation with the Member regarding the Contract, otherwise than in the normal course of the DAB's activities under the Contract and the Dispute Adjudication Agreement. The Employer and the Contractor shall be responsible for compliance with this provision, by the Employer's Personnel and the

Contractor's Personnel respectively.

The Employer and the Contractor undertake to each other and to the Member that the Member shall not, except as otherwise agreed in writing by the Employer, the Contractor, the Member and the Other Members:

- (a) be appointed as an arbitrator in any arbitration under the Contract;
- (b) be called as a witness to give evidence concerning any dispute before arbitrator(s) appointed for any arbitration under the Contract; or
- (c) be liable for any claims for anything done or omitted in the discharge or purported discharge of the Member's functions, unless the act or omission is shown to have been in bad faith.

The Employer and the Contractor hereby jointly and severally indemnify and hold the Member harmless against and from claims from which he is relieved from liability under the preceding paragraph.

Whenever the Employer or the Contractor refers a dispute to the DAB under Sub-Clause 19.4 (Obtaining Dispute Adjudication Board's Decision) of the Conditions of Contract, which will require the Member to make a site visit and attend a hearing, the Employer or the Contractor shall provide appropriate security for a sum equivalent to the reasonable expenses to be incurred by the Member. No account shall be taken of any other payments due or paid to the Member.

6. Payment

The Member shall be paid as follows:

- (a) a retainer fee per calendar month, which shall be considered as payment in full for:
 - (i) being available on 28 Days notice for all site visits and hearings;
 - (ii) becoming and remaining conversant with all project developments and maintaining relevant files;
 - (iii) all office and overhead expenses including secretarial services, photocopying and office supplies incurred in connection with his duties; and
 - (iv) all services performed hereunder except those referred to in subparagraphs (b) and (c) of this Clause.

The retainer fee shall be paid with effect from the last day of the calendar month in which the Dispute Adjudication Agreement becomes effective; until the last day of the calendar month in which the Taking-Over Certificate is issued for the whole of the Works.

With effect from the first day of the calendar month following the month in which the Taking-Over Certificate is issued for the whole of the Works, the retainer fee shall be reduced by 50%. This reduced fee shall be paid until the first day of the calendar month in which the Member resigns or the Dispute Adjudication Agreement is otherwise terminated.

- (b) a daily fee which shall be considered as payment in full for:
 - (i) each day or part of a day up to a maximum of two Days travel time in each direction for the journey between the Member's home and the site, or another location of a meeting with the Other Members;
 - (ii) each working day on Site visits, hearings or preparing decisions; and
 - (iii) each day spent reading submissions in preparation for a hearing.
- (c) all reasonable expenses including necessary travel expenses (hotel and subsistence and other direct travel expenses) incurred in connection with the Member's duties, as well as the cost of telephone calls, courier charges, and faxes: a receipt shall be required for each item in excess of five percent of the daily fee referred to in sub-paragraph (b) of this Clause.

The retainer and daily fees shall be as specified in the Dispute Adjudication Agreement. Unless it specifies otherwise, these fees shall remain fixed for the entire duration of the Contract.

The Member shall submit invoices for payment of the monthly retainer quarterly in advance. Invoices for other expenses and for daily fees shall be submitted following the conclusion of a site visit or hearing. All invoices shall be accompanied by a brief description of activities performed during the relevant period and shall be addressed to the Contractor.

The Contractor shall pay each of the Member's invoices in full within 56 calendar days after receiving each invoice and shall apply to the Employer (in the Statements under the Contract) for reimbursement of one-half of the amounts of these invoices. The Employer shall then pay the Contractor in accordance with the Contract.

If the Contractor fails to pay to the Member the amount to which he/she is entitled under the Dispute Adjudication Agreement, the Employer shall pay the amount due to the Member and any other amount which may be required to maintain the operation of the DAB; and without prejudice to the Employer's rights or remedies. In addition to all other rights arising from this default, the Employer shall be entitled to reimbursement of all sums paid in excess of one-half of these payments, plus all costs of recovering these sums and financing charges calculated at the rate specified in Sub-Clause 14.7 of the Conditions of Contract.

If the Member does not receive payment of the amount due within 70 days after submitting a valid invoice, the Member may (i) suspend his/her services (without notice) until the payment is received, and/or (ii) resign his/her appointment by giving notice under Clause 7.

7. Termination

At any time: (i) the Employer and the Contractor may jointly terminate the Dispute Adjudication Agreement by giving 42 Days notice to the Member; or (ii) the Member may resign as provided for in Clause 2.

If the Member fails to comply with the Dispute Adjudication Agreement, the Employer and the Contractor may, without prejudice to their other rights, terminate it by notice to the Member. The notice shall take effect when received by the Member.

If the Employer or the Contractor fails to comply with the Dispute Adjudication Agreement, the Member may, without prejudice to his other rights, terminate it by notice to the Employer and the Contractor. The notice shall take effect when received by them both.

Any such notice, resignation and termination shall be final and binding on the Employer, the Contractor and the Member. However, a notice by the Employer or the Contractor, but not by both, shall be of no effect.

8. Default of the Member

If the Member fails to comply with any of his obligations under Clause 4 (a) - (d) above, he shall not be entitled to any fees or expenses hereunder and shall, without prejudice to their other rights, reimburse each of the Employer and the Contractor for any fees and expenses received by the Member and the Other Members, for proceedings or decisions of the DAB which are rendered void or ineffective by the said failure to comply.

If the Member fails to comply with any of his obligations under Clause 4 (e) - (k) above, he shall not be entitled to any fees or expenses hereunder from the date and to the extent of the non-compliance and shall, without prejudice to their other rights, reimburse each of the Employer and the Contractor for any fees and expenses already received by the Member, for proceedings or decisions of the DAB which are rendered void or ineffective by the said failure to comply.

9. Disputes

Any dispute or claim arising out of or in connection with this Dispute Adjudication Agreement, or the breach, termination or invalidity thereof, shall be finally settled in accordance with Arbitration Act No 11, 1995 of Sri Lanka with a sole Arbitrator..

Reference Only

PROCEDURAL RULES

1. Unless otherwise agreed by the Employer and the Contractor, the DAB shall visit the site at intervals of not more than 70 days, including times of critical construction events, at the request of either the Employer or the Contractor. Unless otherwise agreed by the Employer, the Contractor and the DAB, the period between consecutive visits shall not be less than 35 days, except as required to convene a hearing as described below.
2. The timing of and agenda for each site visit shall be as agreed jointly by the DAB, the Employer and the Contractor, or in the absence of agreement, shall be decided by the DAB. The purpose of site visits is to enable the DAB to become and remain acquainted with the progress of the Works and of any actual or potential problems or claims, and, as far as reasonable, to endeavour to prevent potential problems or claims from becoming disputes.
3. Site visits shall be attended by the Employer, the Contractor and the Engineer and shall be co-ordinated by the Employer in co-operation with the Contractor. The Employer shall ensure the provision of appropriate conference facilities and secretarial and copying services. At the conclusion of each site visit and before leaving the site, the DAB shall prepare a report on its activities during the visit and shall send copies to the Employer and the Contractor.
4. The Employer and the Contractor shall furnish copy each to the members of the DAB all documents which the DAB may request, including Contract documents, progress reports, variation instructions, certificates and other documents pertinent to the performance of the Contract. All communications between the DAB and the Employer or the Contractor shall be copied to the other Party.
5. If any dispute is referred to the DAB in accordance with Sub-Clause 19.4 (Obtaining Dispute Adjudication Board's Decision) of the Conditions of Contract, the DAB shall proceed in accordance with Sub-Clause 19.4 (Obtaining Dispute Adjudication Board's Decision) and these Rules. Subject to the time allowed to give notice of a decision and other relevant factors, the DAB shall:
 - (a) act fairly and impartially between the Employer and the Contractor, giving each of them a reasonable opportunity of putting his case and responding to the other's case, and
 - (b) adopt procedures suitable to the dispute, avoiding unnecessary delay or expense.
6. The DAB may conduct a hearing on the dispute, in which event it will decide on the date and place for the hearing and may request that written documentation and arguments from the Employer and the Contractor be presented to it prior to or at the hearing.
7. Except as otherwise agreed in writing by the Employer and the Contractor, the DAB shall have power to adopt an inquisitorial procedure, to refuse admission to hearings or audience at hearings to any persons other than representatives of the Employer, the Contractor and the Engineer, and to proceed in the absence of any party who the DAB is satisfied received notice of the hearing; but shall have discretion to decide whether and to what extent this power may be exercised.
8. The Employer and the Contractor empower the DAB, among other things, to:
 - (a) establish the procedure to be applied in deciding a dispute,
 - (b) decide upon the DAB's own jurisdiction, and as to the scope of any dispute referred to it,
 - (c) conduct any hearing as it thinks fit, not being bound by any rules or procedures other than those contained in the Contract and these Guidelines,

- (d) take the initiative in ascertaining the facts and matters required for a decision,
 - (e) make use of its own specialist knowledge, if any,
 - (f) decide upon the payment of financing charges in accordance with the Contract,
 - (g) decide upon any provisional relief such as interim or conservatory measures, and
 - (h) open up, review and revise any certificate, decision, determination, instruction, opinion or valuation of the Engineer, relevant to the dispute.
9. The DAB shall not express any opinions during any hearing concerning the merits of any arguments advanced by the Parties. Thereafter, the DAB shall make and give its decision in accordance with Sub-Clause 19.4 (Obtaining Dispute Adjudication Board's Decision), or as otherwise agreed by the Employer and the Contractor in writing. The DAB:
- (a) shall convene in private after a hearing, in order to have discussions and prepare its decision;
 - (b) shall endeavor to reach a unanimous decision: if this proves impossible the applicable decision shall be made by a majority of the Members, who may require the minority Member to prepare a written report for submission to the Employer and the Contractor; and
 - (c) Member fails to attend a meeting or hearing, or to fulfill any required function, the other two Members may nevertheless proceed to make a decision, unless:
 - (i) either the Employer or the Contractor do not agree that they do so, or
 - (ii) the absent Member is the chairman and he/she instructs the other Members to not make a decision.

Reference Only

DISPUTE ADJUDICATION AGREEMENT

[for each member of a three - person DAB]

Name and details of Contract
Name and address of Employer
Name and address of Contractor
Name and address of Member

Whereas the Employer and the Contractor have entered into the Contract and desire jointly to appoint the Member to act as one of the three persons who are jointly called the Dispute Adjudication Board (DAB) [and desire the Member to act as chairman of the DAB]

The Employer, Contractor and Member jointly agree as follows:

1. The conditions of this Dispute Adjudication Agreement comprise the “General Conditions of Dispute Adjudication Agreement” which is appended to the General Conditions of the “Standard Bidding Document, Procurement of Works, Major Contracts - Second Edition, January 2007” and the following provisions. In these provisions, which include amendments and additions to the General Conditions of Dispute Adjudication Agreement, words and expressions shall have the same meanings as are assigned to them in the General Conditions of Dispute Adjudication Agreement.
2. [Details of amendments to the General Conditions of Dispute Adjudication Agreement, if any]

For example:

In the procedural rules annexed to the General Conditions of Dispute Adjudication Agreement, Rule _____ is deleted and replaced by: “.....”
3. In accordance with Clause 6 of the General Conditions of Dispute Adjudication Agreement the Member shall be paid as follows:

A retainer fee of _____ per calendar month,
plus a daily fee of _____ per day.
4. In consideration of these fees and other payments to be made by the Employer and the Contractor in accordance with Clause 6 of the General Conditions of Dispute Adjudication Agreement, the Member undertakes to serve, as described in this Dispute Adjudication Agreement, as one of the three persons who are jointly to act as the DAB.
5. The Employer and the Contractor jointly and severally undertake to pay the Member, in consideration of the carrying out of these services, in accordance with Clause 6 of the General Conditions of Dispute Adjudication Agreement.
6. This Dispute Adjudication Agreement shall be governed by the law of _____

SIGNED by: _____

for and on behalf of the employer
in the presence of

Witness: _____

Name: _____

Address: _____

Date: _____

SIGNED by: _____

for and on behalf of the Contractor
in the presence of

Witness: _____

Name: _____

Address: _____

Date: _____

SIGNED by: _____

the Member
in the presence of

Witness : _____

Name : _____

Address : _____

Date: _____

APPENDIX B

Environmental, Social, Health and Safety (ESHS)

Metrics for Progress Reports

Metrics for regular reporting:

- a. environmental incidents or non-compliances with contract requirements, including contamination, pollution or damage to ground or water supplies;*
- b. health and safety incidents, accidents, injuries and all fatalities that require treatment;*
- c. interactions with regulators: identify agency, dates, subjects, outcomes (report the negative if none);*
- d. status of all permits and agreements:*
 - i. work permits: number required, number received, actions taken for those not received;*
 - ii. status of permits and consents:*
 - List areas/facilities with permits required (quarries, asphalt & batch plants), dates of application, dates issued (actions to follow up if not issued), dates submitted to resident engineer (or equivalent), status of area (waiting for permits, working, abandoned without reclamation, decommissioning plan being implemented, etc.);*
 - list areas with landowner agreements required (borrow and spoil areas, camp sites), dates of agreements, dates submitted to resident engineer (or equivalent);*
 - identify major activities undertaken in each area in the reporting period and highlights of environmental and social protection (land clearing, boundary marking, waste salvage, traffic management, decommissioning planning, decommissioning implementation);*
 - for quarries: status of relocation and compensation (completed, or details of activities and current status in the reporting period).*
- e. health and safety supervision:*
 - i. safety officer: number days worked, number of full inspections & partial inspections, reports to construction/project management;*
 - ii. number of workers, work hours, metric of PPE use (percentage of workers with full personal protection equipment (PPE), partial, etc.), worker violations observed (by type of violation, PPE or otherwise), warnings given, repeat warnings given, follow-up actions taken (if any);*
- f. worker accommodations:*
 - i. number of expats housed in accommodations, number of locals;*

- ii. date of last inspection, and highlights of inspection including status of accommodations' compliance with national and local law and good practice, including sanitation, space, etc.;
- iii. actions taken to recommend/require improved conditions, or to improve conditions.
- g. *HIV/AIDS: provider of health services, information and/or training, location of clinic, number of non-safety disease or illness treatments and diagnoses (no names to be provided);*
- h. *gender (for expats and locals separately): number of female workers, percentage of workforce, gender issues raised and dealt with (cross-reference grievances or other sections as needed);*
- i. *training:*
 - i. number of new workers, number receiving induction training, dates of induction training;
 - ii. number and dates of toolbox talks, number of workers receiving Occupational Health and Safety (OHS), environmental and social training;
 - iii. number and dates of HIV/AIDS sensitization and/or training, no. workers receiving training (in the reporting period and in the past); same questions for gender sensitization, flag person training.
 - iv. number and date of GBV /SEA sensitization and/or training, number of workers receiving training on code of conduct (in the reporting period and in the past), etc.
- j. *environmental and social supervision:*
 - i. environmentalist: days worked, areas inspected and numbers of inspections of each (road section, work camp, accommodations, quarries, borrow areas, spoil areas, swamps, forest crossings, etc.), highlights of activities/findings (including violations of environmental and/or social best practices, actions taken), reports to environmental and/or social specialist/construction/site management;
 - ii. sociologist: days worked, number of partial and full site inspections (by area: road section, work camp, accommodations, quarries, borrow areas, spoil areas, clinic, HIV/AIDS center, community centers, etc.), highlights of activities (including violations of environmental and/or social requirements observed, actions taken), reports to environmental and/or social specialist/construction/site management; and
 - iii. Community liaison person(s): days worked (hours community center open), number of people met, highlights of activities (issues raised, etc.), reports to environmental and/or social specialist /construction/site management.
- k. *Grievances: list new grievances (e.g. allegations of GBV / SEA) received in the reporting period and unresolved past grievances by date received, complainant, how received, to whom referred to for action, resolution and date (if completed), data resolution reported to complainant, any required follow-up (Cross-reference other sections as needed):*
 - i. Worker grievances;

- ii. Community grievances

l. Traffic and vehicles/equipment:

- i. traffic accidents involving project vehicles & equipment: provide date, location, damage, cause, follow-up;
- ii. accidents involving non-project vehicles or property (also reported under immediate metrics): provide date, location, damage, cause, follow-up;
- iii. overall condition of vehicles/equipment (subjective judgment by environmentalist); non-routine repairs and maintenance needed to improve safety and/or environmental performance (to control smoke, etc.).

m. Environmental Mitigation and issues (what has been done):

- i. dust: number of working bowsters, number of waterings/day, number of complaints, warnings given by environmentalist, actions taken to resolve; highlights of quarry dust control (covers, sprays, operational status); % of rock/spoil lorries with covers, actions taken for uncovered vehicles;
- ii. erosion control: controls implemented by location, status of water crossings, environmentalist inspections and results, actions taken to resolve issues, emergency repairs needed to control erosion/sedimentation;
- iii. quarries, borrow areas, spoil areas, asphalt plants, batch plants: identify major activities undertaken in the reporting period at each, and highlights of environmental and social protection: land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation;
- iv. blasting: number of blasts (and locations), status of implementation of blasting plan (including notices, evacuations, etc.), incidents of off-site damage or complaints (cross-reference other sections as needed);
- v. spill cleanups: if any: material spilled, location, amount, actions taken, material disposal (report all spills that result in water or soil contamination);
- vi. waste management: types and quantities generated and managed, including amount taken offsite (and by whom) or reused/recycled/disposed on-site;
- vii. details of tree plantings and other mitigations required undertaken in the reporting period;
- viii. details of water and swamp protection mitigations required undertaken in the reporting period.

n. compliance:

- i. compliance status for conditions of all relevant consents/permits, for the Work, including quarries, etc.): statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance;
- ii. compliance status of C-ESMP/ESIP requirements: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance

- iii. compliance status of GBV/SEA prevention and response action plan: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance
- iv. compliance status of Health and Safety Management Plan re: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance
- v. other unresolved issues from previous reporting periods related to environmental and social: continued violations, continued failure of equipment, continued lack of vehicle covers, spills not dealt with, continued compensation or blasting issues, etc. Cross-reference other sections as needed.

Reference Only

Section - 5

Standard Forms (Contract)

- Letter of Acceptance
- Agreement
- Performance Security
- ESHS Performance Security
- Advance Payment Security
- Retention Money Guarantee
- ESHS Declaration

Notes on Form of Letter of Acceptance

The Letter of Acceptance will be the basis for formation of the Contract as described in Clause 34 of the Instructions to Bidders. This Form of Letter of Acceptance should be filled in and sent to the successful bidder only after evaluation of Bids and after obtaining approval from the relevant authority.

FORM OF LETTER OF ACCEPTANCE

[Letter heading paper of the procuring entity]

..... *[date]*

To: ----- *[name and address of the Contractor]* -----

This is to notify you that your bid dated ----- *[insert date]* for the **Establishment of Provincial Groundwater Management Unit -Jaffna Region-Phase-01 (LK/MC/MDE- 367174 -CW-RFB)** for the Contract price of -----*[name of currency]*-----
[amount in figures and words] as corrected in accordance with Instructions to Bidders and/ or modified by a Memorandum of Understanding, is hereby accepted.

You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract documents.

The Commencement Date shall be: *(fill the date as per Clause 8.1 of Conditions of Contract).*

The amount of Performance Security is: *(fill the amount as per Clause 4.2 of Conditions of Contract).*

The Performance Security shall be submitted on or before *(fill the date as per Clause 4.2 of Conditions of Contract).*

Authorized Signature :

Name and title of Signatory :

FORM OF AGREEMENT

This Agreement made the [day] of [month] 20..... [year], between [name and address of Employer] (hereinafter called and referred to as “the Employer”), of the one part, and [name and address of Contractor] (hereinafter called and referred to as “the Contractor”), of the other part:

Whereas the Employer desires that the Contractor execute **the Establishment of Provincial Groundwater Management Unit-Jaffna Region-Phase-01 (LK-MOMDE-367174-CW-RFB)** (hereinafter called and referred to as “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and remedying of any defects therein.

The Employer and the Contractor agree as follows::

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract.
2. In consideration of the payments to be made by the Employer to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execute and complete the Works and remedy any defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year aforementioned in accordance with laws of Sri Lanka.

.....
Authorized signature of Contractor

.....
Authorized signature of Employer

COMMON SEAL

COMMON SEAL

In the presence of
Witnesses :

1. Name and NIC No.
Signature
Address
2. Name and NIC No.
Signature
Address

**FORM OF PERFORMANCE SECURITY
(Unconditional)**

----- *[Issuing Agency's Name, and Address of Issuing Branch or Office]* -----

Beneficiary: ----- *[Name and Address of Employer]*

Date: -----

PERFORMANCE GUARANTEE No.: -----

We have been informed that ----- *[name of Contractor]* (hereinafter called "the Contractor") has entered into Contract No. **LK-MOMDE-367174 -CW-RFB** dated ----- with you, for the ----- *[insert "construction"]* of **the Establishment of Provincial Groundwater Management Unit -Jaffna Region-Phase-01** (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we ----- *[name of Agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- *[amount in figures]* (-----) *[amount in words]*, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the day of, 20.. *[insert date, 28 days beyond the Time for Completion]* and any demand for payment under it must be received by us at this office on or before that date.

[signature(s)]

Form of Environmental, Social, Health and safety (ESHS) Performance Security

ESHS Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Employer]*

Date: *_ [Insert date of issue]*

ESHS PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ (hereinafter called "the Applicant") has entered into Contract No. **LK-MOMDE-367174-CW-RFB** dated _____ with the Beneficiary, for the execution of the Establishment of Provincial Groundwater Management Unit - Jaffna Region-Phase-01 (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____),¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its Environmental and/or Social and/or Health and/or Safety (ESHS) obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

¹ The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency (cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

² Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

Reference Only

FORM OF ADVANCE PAYMENT SECURITY

----- [Name and address of Agency, and Address of Issuing Branch or Office] -----

Beneficiary: ----- [Name and Address of Employer]

Date: -----

ADVANCE PAYMENT GUARANTEE No.: -----

We have been informed that ----- [name of Contractor] (hereinafter called “the Contractor”) has entered into Contract No. **LK-MOMDE-367174 -CW-RFB** dated ----- with you, for the ----- construction of **the Establishment of Provincial Groundwater Management Unit -Jaffna Region-Phase-01** (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum ----- [amount in figures] (-----) [amount in words] is to be made against an advance payment guarantee.

At the request of the Contractor, we ----- [name of issuing agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- [amount in figures] (-----) [amount in words] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation in repayment of the Advance Payment under the Contract.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor.

This guarantee shall expire on [Insert the date, 28 days beyond the Time of Completion]

Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

[signature(s)]

FORM OF RETENTION MONEY GUARANTEE

----- *[Issuing Agency's Name, and Address of Issuing Branch or Office]* -----

Beneficiary: ----- *[Name and Address of Employer]* -----

Date: -----

RETENTION MONEY GUARANTEE No.: -----

We have been informed that ----- *[name of Contractor]* (hereinafter called "the Contractor") has entered into Contract No. **LK-MOMDE-367174 -CW-RFB** *[reference number of the contract]* dated ----- with you, for **the execution of the Establishment of Provincial Groundwater Management Unit -Jaffna Region-Phase-01** (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, when the works have been taken over and the first half of the Retention Money has been certified for payment, payment of the second half of the Retention Money may be made against a Retention Money guarantee.

At the request of the Contractor, we ----- *[name of agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- *[amount in figures]* (----- *[amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor has not attended to the defects in accordance with the Contract..

This guarantee shall expire, at the latest, ----- *[insert 28 Days after the end of the Defects Liability Period]*. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

[signature(s)]

Form of ESHS Declaration

Date: _____
 Bid No.: _____

To: _____

We, the undersigned, declare that civil work contracts *have/ have not been* suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), or health or safety requirements or safeguard in the past five years.

(Note: If suspended, terminated or Performance Security is called give details)

Year	Suspended or terminated portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s) e.g. for GBV/SEA breaches]</i>	<i>[insert amount]</i>
...	...	<i>[list all applicable contracts]</i>	...
Performance Security called by an employer for reasons related to ESHS performance			
Year	Contract Identification		Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for calling of performance security: <i>[indicate main reason(s) e.g. for GBV/SEA breaches]</i>		<i>[insert amount]</i>

Signed: _____

In the capacity of _____

Name: _____

Duly authorized to sign the bid for and on behalf of: _____

Dated on _____ day of _____, _____

Corporate Seal (where appropriate)

Section – 6

Specifications

Reference Only

Section 6.1- Technical Specifications

Technical Specifications relevant to this contract consist of two parts.

Part 1 - General Technical Specifications

Following CIDA publications are applicable as the general specifications for the Works of this Contract.

CIDA/DEV/17	Specifications for Site investigation for Foundations of Building and Civil Engineering Works
SCA/4/I	Specifications for Building Works (Vol. I) – [3rd Edition (Revised) – July 2004]
SCA/4/II	Specifications for Building Works (Vol. II) – [2nd Edition (Revised) – October 2001]
SCA/7	Specifications for Landscape Works – Volume I
SCA/8	Specifications for Electrical & Mechanical Works - [2nd Edition (Revised) – August 2000]
SCA/3/2 - Volume I	Specifications for Water Supply Sewerage & Storm Water Drainage Works (Volume I) (April 2021)
SCA/3/2 - Volume II	Specifications for Water Supply Sewerage & Storm Water Drainage Works (Volume II) (April 2021)
SCA/3/2 - Volume III	Specifications for Water Supply Sewerage & Storm Water Drainage Works (Volume III) (April 2021)
CIDA/SP/102	Specifications for Irrigation & Land Drainage – [1st Edition – January 2017]
SCA/3/3	Specifications for Reclamation Works - [2nd Edition (Revised) – December 1999]

These publications are not issued with the Bidding Document package and the Bidder/Contractor may purchase them from the following source.

Construction Industry Development Authority(CIDA), “Savsiripaya” No. 123, Wijerama Mawatha, Colombo 7

Part 2 - Particular Technical Specifications

Particular Technical Specifications includes project specific specifications and conditions of particular specification which includes modifications and amplifications to the Standard Specifications given in General Technical Specifications.

1. Introduction

The following Particular Technical Specifications are part of the requirements for the work related to the Civil Works which are to be provided according to the stipulation of the Contract. Hence, the instructions given herein form an integral part of the, and are applicable to, all technical and Contract documents issued for Works. Addenda to these specifications may be issued as required during construction phase with both party agreements.

These Particular Technical Specifications shall be read in conjunction with the General Technical Specifications (CIDA), the Conditions of Contract and the Bidding Drawings. The Contractor shall comply with all provisions contained within Contract documents.

The General Technical specifications and the Particular Technical Specifications in conjunction with the Bidding drawings define the technical standard and quality to be achieved during construction.

The Particular Technical Specifications relevant to this contract are given in the following Sub Sections.

Sub-Sections	Page No
Contractor's submittals and Engineer's approval	3
Contractor's Quality Assurance System	4
Site installation, Services, and environmental obligations	4
Safety and health precautions	8
Design documents, Construction and As Built Drawings	10
Site supervision, Construction Schedule, and reporting	11
Dealing with Water	13
Care of water	14
Setting Out Works	15
Surface excavation	16
Miscellaneous fill works and rehabilitation measures for embankments	18
Environmental and Social Management Plan	22
Technical Specifications for Electrical Installation	24

It is the intent of these Specifications, together with other relevant documents issued as part of the Contract Documents or to follow later on, to provide the Contractor with complete and detailed information and subsequent instructions necessary to enable him to carry out the design, where and when required, and to execute properly the work prescribed.

It is the intent of these Particular Specifications to establish acceptable standards of quality. On the other hand, they shall also allow the construction of the Works in an efficient and economical way. Minor deviations in details due to selected work procedures and due to the manufacturer's standard shop process will be considered for acceptance provided that, in the opinion of the Engineer, the proposed substitutions are equal in quality to those specified.

The Drawings available shall serve as a basis for detail design drawings to be produced by the Contractor. All work shall be executed according to the Drawings and requirements released for construction, in a professional and diligent manner, and all supplies and work shall comply with the quality requirements defined in the relevant Sections of these Specifications and other Contract Documents. The Contractor shall provide all necessary efforts to comply with the intent of the General and Particular Specifications to the satisfaction of the Engineer.

CONTRACTOR'S SUBMITTALS AND ENGINEER'S APPROVAL

The Contractor shall provide the Engineer with all submittals as requested in these Specifications and other Contract Documents. Although their extent shall be to the discretion of the Contractor, they shall be complete enough to illustrate adequately their intent and facilitate full for the understanding of the Engineer.

At any time, the Engineer may call for additional information, completion of the submittals. The Contractor shall submit these documents to the Engineer so that, even if not specifically expressed, reasonable time will be given to the Engineer to comment or approve the submittals.

The approval of the Engineer shall always be given in written form prior to the commencement of any work under this Contract and the Contractor shall not be paid for any work that is performed without the express written approval or instruction by the Engineer.

CONTRACTOR'S QUALITY ASSURANCE SYSTEM

As per Clause 4.17 General Conditions of Contract, the Contractor shall institute a quality assurance system to demonstrate that the Works are being carried out in compliance with the requirements of the Contract. The Contractor shall, within 28 days from the receipt of Letter of Acceptance, submit the quality assurance system he is proposing to adopt in the Contract.

The Contractor shall build the quality assurance system for all his activities from the commencement to completion of the Contract. The system shall include but not limited to the following.

- Contractors site management
- setting out
- Construction Drawings
- Safety measures adopted
- Environmental Management
- Traffic Management
- Maintenance of Roads
- Construction Methods adopted
- Quality Control
- Progress monitoring
- Monthly Bills

The quality assurance system instituted by the Contractor is a requirement under the Contract and no payment will be made to the Contractor for this work.

SITE INSTALLATION, SERVICES AND ENVIRONMENTAL OBLIGATIONS

Scope of work

The Contractor shall be responsible for providing plant, equipment, materials and labour for the provision of all necessary site installations, temporary works and services adequate for the realization of the works under this Contract.

The Contractor shall design, furnish, install, maintain and operate all site installations, temporary works and Contractor's equipment for his own use and for the use of the Engineer and Subcontractors, and as required for third parties, including workshops, warehouses, storage and assembly areas, all machinery, vehicles, scaffolding, equipment, water and power supply, etc.

Site installations, temporary works and services provided by the Contractor for his own use as well as for that of the Engineer or for third parties shall conform to the applicable standards, codes and sanitary requirements set down by the Sri Lankan authorities for such purpose.

The construction, operation and maintenance of the Contractor's site installations, temporary works and services shall be subject to inspection and written consent by the Engineer.

The scope of the works includes but is not limited to following site installation parts:

- a) All temporary structures required for the performance of the works
- b) Stores, Warehouses, Materials Yards.
- c) Construction equipment.
- d) Power supply and illumination.
- e) Water supply.
- f) Sanitation, sewerage and waste disposal.
- g) Communication System.
- h) Site security

All installations of any Subcontractors shall comply with these Specifications.

Submittals

Within 14 days from the date of contract award the Contractor shall submit to the Engineer an updated project schedule showing all the activities he intends to perform to meet his obligations in is contract and to complete the works within its stipulated time for completion. This baseline schedule will be used for monitoring progress each month and for evaluating the impacts of any departures from the baseline schedule.

Prior to construction works

The Contractor shall carry out all necessary setting out work required for the approved performance of the works and shall ensure that the position and elevation of all works thus constructed are correct. The measuring methods and devices used must meet the standard of accuracy required for this purpose.

ACCESS WORKS

The construction and maintenance of permanent and temporary access roads from public roads to the sites, including crossings, shall be the Contractor's responsibility to the approval of the Engineer.

In general, all roads within the site area shall be the Contractor responsibility, construction and maintenance, during the works until final handover to the Engineer.

Proper maintenance of all roads being used by the Contractors during the entire construction period, both permanent existing ones as well as temporary roads, shall be the Contractor's responsibility.

Additional roads and ramps which have to be built to transport equipment and materials shall be constructed by the Contractor at his own expense and with the Engineer's prior approval, and the maintenance of such roads during the construction period shall also be at the Contractor's expense. The same applies for existing public roads and bridges used by the Contractor in the vicinity of the site for the execution of the works.

Any work, improvement or modification at the existing access roads made by the Contractor, for his own convenience, and without being ordered by the Engineer, shall be at the Contractor's own risk and expense.

If any damage or pollution occurs during the execution of the works, the Contractor must restore and clean the roads immediately at his own cost.

After completion of the Contract and before delivering the work to the Engineer (final takeover), all temporary structures shall be removed to the satisfaction of the Engineer.

ROAD ACCESS TO THE SITE

Transport of Materials

Prior to moving any heavy construction traffic onto highways, roads and bridges, the Contractor shall make suitable arrangements with the appropriate Government Authorities and obtain their approval for the passage of such traffic.

Special Protection

Where Government Authorities require and specify any special protection or strengthening of highways, roads and bridges. The Contractor shall submit to the Engineer his proposals for such work after their approval by the authority concerned and shall carry-out this work as directed.

Tracked Vehicles

The Contractor shall not travel tracked vehicles or plant on any bituminous sealed road surface. Rubber-tired vehicles conforming to applicable load restrictions will be permitted to use bituminous sealed roads.

CONTRACTOR'S OFFICES, CAMP AND FACILITIES

General

The Contractor shall provide a main office and site offices for his staff. The main office shall be located in the vicinity of the construction site. The Contractor shall provide and maintain such offices, stores,

workshops, housing and adequately fenced store and delivery compounds as are necessary for the execution of the Works, including all necessary services for water supply, drainage, lighting, roads, paths, parking places, sewerage and garbage disposal.

Construction Camp

The Contractor shall set up his camp as proposed in his Tender for housing, camps and for other required facilities and amenities for his employees and for the employees of his sub-contractors.

The Contractor shall be deemed to have inspected these sites and made his own evaluation as to their adequacy and suitability for the development of the required camp facilities.

All buildings shall always be open to inspection by the Engineer. Any instruction given by the Engineer for the proper cleaning, disinfection and general maintenance of any building in the sanitary and hygienic condition of any building must be forthwith carried-out by the Contractor. Before any buildings are occupied the Contractor shall draw up a code of rules and regulations for their control which shall be approved by the Engineer.

Stores, warehouse, workshops, and material yards

The Contractor shall provide and equip, for his own and his Subcontractors' use, warehouses, materials storage areas and fuel storage areas, all of which shall be maintained in good condition until the completion of works.

Listed hereunder are the buildings, workshops and warehouses expected to be constructed and equipped by the Contractor for use in the performance of the work under this Contract, in addition to facilities explicitly specified elsewhere in these specifications:

- a) Workshop and service facilities for vehicles and construction equipment
- b) Main warehouse and parts store
- c) Storage facilities for all materials applied within the conduction of the rehabilitation works

TEMPORARY WORKS

General

The Contractor shall execute, erect, maintain and remove upon completion of the Works, all Temporary Works in accordance with the proposals submitted with the Tender or with such modifications as approved by the Engineer from time to time.

Approval of Temporary Works

The Contractor shall submit to the Engineer for approval drawings and full particulars of all Temporary Works which he intends to construct at least 30 days before he desire to commence constructing such works.

The submission to, or approval by, the Engineer of any such proposals by the Contractor shall not relieve the Contractor of any of his responsibility for the sufficiency of the Temporary Works for their intended purpose.

CONTRACTOR'S EQUIPMENT

The Contractor shall supply, install, operate, maintain, and subsequently remove all the Contractor's equipment required for the execution of the Works. In particular, the Contractor shall supply all those items listed on the Technical Proposal in the Contract at the time stated therein or at such other time as may be deemed necessary in the opinion of the Engineer.

The Contractor's equipment shall not be removed from the Site without the written approval of the Engineer. If during the execution of the Works any item of the Contractor's equipment in the opinion of the Engineer, is unsuitable so as to fail to perform the services required in the execution of the Works, the Contractor shall replace such construction equipment with another suitable one at his own cost.

The Engineer may, if he considers it necessary for the execution of the Works in accordance with the Contract, order the Contractor to supply additional items of Contractor's equipment or extend the period

for which the Contractor's equipment is required. The Contractor shall supply and stock all essential spare parts for his equipment to ensure the efficient execution of the Works.

The Contractor shall submit a Monthly Equipment Report, which lists the following information about the Contractor's equipment.

- a. List of all equipment located at the Site.
- b. Daily working and operation record of each item of equipment.
- c. Inspection, repair and maintenance records.
- d. Quality of work.
- e. Quantities of fuel, lubricant, oil and tires consumed.
- f. Overhauling record.
- g. Accident report.
- h. List of unserviceable equipment and action being taken to put back in operation

UTILITIES

Power supply and illumination

The Contractor shall supply, install, operate and maintain an adequate power supply system and illumination for running the site and other site installation facilities during the whole construction period. The concept shall be approved by the Engineer.

Water supply

The Contractor shall provide, install, operate and maintain adequate and suitable water supplies for the works within the contract including storage for drinking purposes, sanitation, construction, cleaning, testing and commissioning of the various equipment items and plant components of the construction lot.

The water supplies shall be continuously available during working hours and rated to meet the maximum demand required during construction on the basis of 'firm supply' and shall supply all temporary installations.

The drinking water provided shall at all times meet the criteria of the local health authority.

Sanitation, sewerage, and waste disposal

The installations shall meet the requirements of the local health authorities and environmental regulations.

The Contractor shall collect waste material and garbage from the site on a daily basis and transport it to an approved area where it shall be treated and disposed of in accordance with local environmental requirements.

The Site shall be always kept clean and free of refuse. No waste shall be dumped in areas other than those approved by the Engineer for waste disposal. No waste of any kind shall be deposited in any water courses.

DEMOBILIZATION/ REMOVAL OF TEMPORARY WORKS

On completion of the Works, all Temporary Works constructed by the Contractor or handed over to the Contractor by the Engineer, unless otherwise specified or instructed by the Engineer, shall be removed from the Site, as approved by the Engineer.

The Contractor shall make safe all areas affected by Temporary Works and reinstate natural drainage. The Contractor shall finish, reinstate, clean up and relinquish parts of the Site at the end of the Defects Liability Period or such earlier times as instructed by the Engineer.

ENVIRONMENTAL OBLIGATIONS

The Contractor shall, during the whole period of the works comply fully with all national Sri Lankan laws and regulations relating to environmental protection, mitigating measures for reducing

environmental impacts and remedial works on completion of the works. This obligation shall extend to the construction sites themselves and all of the Contractor's site installations.

Notwithstanding any specific obligations as these may be specified in prevailing Sri Lankan laws and regulations, the Contractor shall at all times comply with the following particular requirements for the protection of the environment, the local population and the workers at the construction site:

Collect, treat, remove from site and dispose of in accordance with the regulations and to the satisfaction of the Engineer all domestic and industrial waste and excess construction materials (both solid and liquid), fuel, chemicals and other matter.

All excavated areas shall be filled, graded, and dressed in a clean and orderly condition acceptable to the Engineer. As far as possible such areas should conform to the natural appearance of the landscape.

- Make every effort to minimize the harmful effects of transport to and from the site, in particular vehicle emissions and noise and the control of dust on roads.
The Contractor shall maintain close contact with local representatives and government institutions in addressing issues arising from the construction activities. Such issues needing particular attention are the following.
- Pollution caused by construction work.
- Disruption to the local community
- Disputes related to the use of land for construction activities and/or site installations etc.
- Disputes arising from traffic congestion and restrictions on the use of the main project access road and roads in the project area.
- All matters relating to road safety and the reduction to a minimum of the risk of traffic accidents.

SOCIAL OBLIGATIONS

As far as may be reasonably practicable, the Contractor shall recruit his unskilled labour from those persons from the local community who may apply for work. Suitably skilled workers in the local community should also be recruited wherever practicable.

SAFETY AND HEALTH PRECAUTIONS

General

This section covers the precautions that have to be taken for the health and safety of all personnel on Site that the Contractor and his Sub-Contractors shall apply in all civil construction and equipment erection works during the construction time.

Safety precautions

SAFETY PROGRAMME AND ITS IMPLEMENTATION

A safety program shall detail policies, procedures, and plans which the Contractor intends to implement to ensure the safety and health of his employees. It shall comply with the standards and regulations in force in the country of the works applicable to construction safety.

The Contractor shall designate a competent employee specially trained and experienced to act as Safety Officer, who will administer and be responsible for the implementation of the safety program. He shall carry out frequent and regular safety inspections of the working areas, materials, and equipment. The name and qualifications of the Safety Officer shall be submitted for approval to the Engineer prior to his appointment.

The Contractor shall be responsible for the implementation of health and safety provisions for his subcontractors employed at Site.

All serious and fatal injuries and diseases caused by the progress of work shall be immediately investigated by the Contractor and a comprehensive report shall be submitted to the Engineer.

In case of a fatal accident, only rescue and emergency teams and operations shall be permitted at the place of the occurrence until the Engineer gives permission to resume normal operations.

SAFETY STANDARDS

In addition to the requirements of the following specified herein, the Contractor shall comply with all currently applicable safety documents and/or organizations:

SAFETY OF PERSONNEL

The Contractor shall be responsible for the safety of all personnel on the Site and shall provide his employees and his sub-contractors employees working on the Site, the Engineer's staff and all visitors to the Site with safety equipment appropriate to the tasks upon which they are engaged, including helmets, high visibility vests or jackets, safety footwear and, where required, gloves, lamps, waterproof clothing, dust masks and/or safety belts. The use of such safety equipment shall be compulsory, as deemed necessary by the Engineer.

During drilling works and in areas where the personnel are exposed to harmful noise levels and dust, ear protectors and masks shall be furnished and required to wear.

Employees engaged in work having an inherent danger of eye or face injury shall be furnished and required to wear protective glasses, goggles or masks. Where irritant or toxic substances may come in contact with the skin or clothing, employees shall be wearing protective clothing or shall be required to apply a protective ointment by a competent physician.

Personnel working on steep slopes or otherwise subject to possible falls from levels not protected by fixed guardrails or safety nets, shall be secured by safety belts and lifelines.

Portable ladders shall be wooden or steel ladders sufficiently strong and of suitable size for the use intended. Wooden ladders shall have the steps fixed to the longitudinal posts by assembly. The use of ladders with steps nailed or wired along the longitudinal posts is not permitted.

SECURITY OF PERSONNEL AND WORKING AREAS

The Contractor shall always take the necessary measures to ensure the safety and security of all persons, work, and property. This shall include but not be limited to the following:

- Access control to all areas related to the works
- Installation of fences
- Security patrols

MAINTENANCE OF TRAFFIC AND SAFETY ON ROADS AND SITE

The Contractor shall be responsible for the safety on the roads related to the Site. He shall take all necessary precautions for the protection of the work and the safety of the public on the roads affected by his activities. Where the work will be carried out at the site of, or close to an existing road, the Contractor shall maintain the vehicular and pedestrian traffic safe at all times. If his operations can cause traffic hazards, he shall repair or fence or take other measures for ensuring safety which are satisfactory to the Engineer.

Roads subjected to interference with the work shall be kept open or suitable detours shall be provided and maintained by the Contractor, who shall provide, erect, and maintain all necessary barricades, suitable and sufficient flashlights, flagmen, danger signals, and signs.

The Contractor shall provide all necessary signs for the Works. These shall include, but not be limited to;

- Standard road signs
- Warning signs
- Danger signs
- Safety signs
- Control signs; and
- Direction signs

Wording on all signs shall be in the English, Tamil and Sinhalese languages. The size, colour, lettering and location of all signs will be subject to approval of the Engineer and the international sign convention shall, where applicable, be followed.

The Contractor shall maintain all signs placed by himself as well as those placed by the Employer.

WEATHER PRECAUTIONS

In order that the works may proceed according to the programme, the Contractor is to undertake at his expense all necessary precautions for protection against inclement weather, which shall be subject to the approval of the Engineer.

Health precautions

FIRST AID

Prior to the commencement of construction, the Contractor shall organize and train a first aid team composed of his employees. This team shall be capable of rendering help after accidents.

The first aid team shall be organized in such a way that sufficient number of members will be ready for action at any time until the completion of the work.

The team members shall be instructed and trained for their task by a qualified and experienced person. Each team member shall be skilled in giving first aid, dealing with appliances for artificial respiration, and firefighting equipment and shall possess a good local knowledge. Adequate equipment for reaching even the remotest working area shall be at their disposal.

The Contractor shall submit the details of the proposed first aid team organization to the Engineer for approval.

NOISE CONTROL

The Contractor shall take the provisions required to assure that noise from his construction activities and from the operations of any plants are within the limits established by the WHO for the health of his personnel or shall provide his personnel with ear protectors. Ear protectors shall be provided to all personnel subject to noise levels above 85 dB on a continuous basis during work shifts.

DUST CONTROL

The Contractor shall take the provisions required to assure that dust from his construction activities and from the operations of any plants occurs no impact to the surrounding buildings and people. Precautions to be adopted to avoid spreading of dust outside of site areas.

DESIGN DOCUMENTS AND CONSTRUCTION DRAWINGS

Contract Documents

The Contractor will be provided with one set of the Contract Documents for his own use. A complete set of Contract Documents supplied by the Employer and all further instructions issued by him shall be always kept by the Contractor on the Site and made available to the Engineer and his staff.

Construction Drawings

Based on the Bidding drawings assigned design engineers shall develop designs and prepare associated design documents and construction drawings to be approved by the Engineer.

All Contractor's working drawings and shop drawings required to be submitted for approval in accordance with the Specification, shall be provided in electronic format (AutoCAD computer software) and 03 printed copies, plus copies of design calculations where required, specification and parts catalogues in duplicate. Within 30 days after receiving such designs, design calculations, parts catalogues, specifications and detailed drawings, the Engineer shall give his approval or request modifications. The Contractor shall modify the design and drawings as may be required by the Engineer. The Contractor will be responsible for the control of the design activities performed as well as their verification. The Contractor shall control and document any revised information in the same manner as drawings and specifications, to assure correct communication through the design interfaces.

The work shall be constructed in accordance with the approved drawings, and a copy of such drawings shall be kept on the Site at all times until the completion of the Contract. All drawings on which changes are made shall have the revisions clearly marked.

Construction, fabrication or manufacture of any portion of the Works shall not commence until the design and drawings have been approved in writing by the Engineer and thereafter no change shall be made to any drawings so approved without the permission of the Engineer. Permission to make such changes shall be requested by sending 01 electronic copy and 01 print of each revised drawing to the Engineer for approval.

As-built Drawings

The Contractor shall submit the 4 copies of "As-built Drawings" on a format agreed between the Contractor and Engineer.

During the construction and commissioning period any variations between the "Construction Drawings" and the "As-built Drawings" shall be agreed between the Contractor and Engineer at site. These As-built drawings shall be prepared from the Construction drawings incorporating any authorized changes carried out during construction. Once completed these drawings shall become the property of the Employer and shall be submitted before issue of the Taking -over certificate.

All agreed modifications will be marked up by the Contractor's draughtsman and included on the originals at site. A complete set of these mark ups shall remain at site. The Contractor shall allow for the provision of a draughtsman as required at site to co-ordinate and include all modifications on the drawings. The originals shall then be returned to the Contractor's head office, and these shall form the basis of the "As-built Drawings".

The Contractor shall submit to the Engineer all final revision of all original drawings depicting the "As-built" situation for the works. All drawings and documents prepared exclusively for the project shall become the property of the Engineer.

Final drawing prints shall be size A1 or smaller. Reproducible of the final drawings shall be supplied as follows:

- 4 prints of each drawing to the Engineer.
- 4 CDs with original AutoCAD drawing files to the Engineer.

Where drawings are reduced, an appropriate scale shall be included on the reduced print. To accompany the drawings, the Contractor shall provide a Master Schedule of "As Built" drawings.

SITE SUPERVISION, CONSTRUCTION PROGRAMME AND REPORTS

Site supervision

The Contractor is responsible for providing proper supervision of his site activities by employing suitably qualified and experienced site management and supervisory personnel so that he can carry out his obligations under the Contract.

For the Contractor's information, the Engineer has issued a Construction Supervision Manual, which is intended for use by the Engineer and his staff for the supervision of the works. This manual includes standard forms which will be used during construction for control of the work. It is available to view in the office of the Engineer.

Construction and Contractual Program

- a. Within 01 month of the award of Contract, the Contractor shall submit a revision of the construction program attached to the Tender, for approval.
 - ✓ The construction program shall be prepared using the latest computer software such as MS Project or other similar software approved by the Engineer. This program in Gantt

chart form shall outline the Contractor's activities necessary to complete the Works within the stipulated time period. The program shall show the following minimum details:

- ✓ The duration, sequence and logic links between major activities and any other activities or group of activities which comprise the Works, necessary to define the critical path and logic of the program required for completion and to achieve the Time for Completion. For the purpose of this clause, major activities are those which are greater than one percent of the Contract Price;
- ✓ The planned dates for start and completion of the Works and each Section of the Works;
- ✓ The critical path(s) for the Works and each Section of the Works;
- ✓ Information on shutdown periods, vacation days and other non-working time periods;
- ✓ The estimated value of work to be done each month;
- ✓ Reasons for any changes to timing, work order, method, or resources from the program submitted at the time of tender, or if submitting an updated construction program, reasons for such changes from the previously submitted program.

The construction program submitted in accordance with the provisions of this clause shall in the opinion of the Engineer be reasonable in all respects. The Contractor's program, when approved, shall be known as the Contractual Program.

- b. Whenever the Contractor proposes to change the Contractual Program, he shall immediately advise the Engineer in writing and if the Engineer considers the change is a major one, the Contractor shall submit a revised program for approval.
- c. If the Contractor falls behind the revised Contractual Program he shall, within 14 days of the date of such default, submit for approval a revision of the program showing the proposed measures, including additional plant, labour and material resources, to complete the Permanent Works on time.
- d. When instructed, the Contractor shall promptly furnish a detailed sub-program of the Contractual Program for particular sections of the Permanent Works.
- e. The Contractor shall also attend weekly meetings with the Engineer and provide, not less than 2 days prior to each meeting as required by the Engineer, detailed programs showing separately the various activities of the Contractor anticipated over the forthcoming two-week period as well as the progress achieved over the preceding week relative to the program applicable to that period.

Monthly Progress Report

Before the tenth day of each month, the Contractor shall submit three copies of a monthly progress report in a form acceptable to the Engineer detailing the progress during the preceding month. The monthly progress report shall show the amount of work completed, materials actually used, materials in storage and the cumulative results of all operations completed or in progress and shall be summarized in terms of percentage of completion referenced to the approved programme for the works.

The monthly progress report shall include at least the following:

- ✓ Total percentage of work completed, and total percentage programmed to be completed by the end of the reporting period.
- ✓ Actual percentage of each main work items completed including temporary works, as well as their scheduled percentage, both total and for the reporting period together with the estimated quantities.

- ✓ List of manpower by trade and by position for the reporting period.
- ✓ List of equipment and operational days for the reporting period and materials on site at the end of the period.
- ✓ Description of weather conditions for the period including records of each rainfall
- ✓ List of any accident except of minor nature and any damage that occurred.
- ✓ Any matter which affected or may affect the progress of the work, problems encountered and proposed remedial measures.
- ✓ Colour photographs with imprinted date, not smaller than 100 mm by 150 mm of the work progress during the period for all major components of the Works. The Contractor shall also provide digital versions as well as 5 sets of hard copies of these photographs in albums with titles.

Further the Contractor shall submit financial statements, purchasing and expediting reports, and any other data which the Engineer may reasonably ask for. Additional to the photographs included in the progress reports, the Contractor shall arrange for the taking of progress colour photographs every month, covering all aspects of the work. Two copies of such photographs, suitably dated and captioned, shall be submitted to the Engineer, plus a CD with all relevant files.

The Contractor shall submit the final report not later than one month after completion of the work. This report shall include all relevant information related to the works in a format approved by the Engineer. The Contractor shall submit to the Engineer one copy of the draft report. The final report shall be submitted in triplicate. The final report shall also be made available electronically in pdf format or alternative approved format. The submission of the final report shall follow within one week of acceptance of the draft report.

DEALING WITH WATER

General

The contractor shall construct sufficient temporary works to deal adequately with surface and ground water sources to enable the construction of the permanent works to the satisfaction of the Engineer.

The Contractor shall submit for the approval of the Engineer the location, size and other relevant details including the materials proposed for the construction of the temporary works described above. The contractor shall protect the works during the entire construction period from damage due to rains, surface run-off, floods, etc. and from failure of the temporary protective works constructed by him. Any damage to the works or delay to his operations from such events, whether due to his failure to adequately take such factors into consideration or not shall be corrected by the contractor and will not constitute a basis for claims for additional payment or extension of time. The Contractor shall furnish, maintain, and operate all necessary pumps and other equipment for removal of water from the various parts of the works free from water as required for construction. After having served their purpose, all temporary protective works, unless otherwise directed, shall be removed, or levelled to give a sightly appearance, so as not to interfere with the operation of the other related works.

Unless specifically provided for in the Bill of Quantities, no separate payment will be made for dealing with water. The cost of all operations required for dealing with water shall be included in the respective items of work for which dealing with water is required.

APPROVAL OF PROPOSALS FOR DEALING WITH WATER

Prior to commencement of any works, the Contractor shall submit a Plan for Dealing with Water with full details of the construction, operation, maintenance, and removal of the temporary protective works.

REMOVAL OF WATER FROM FOUNDATIONS

The Contractor's method of removal of water from foundation excavations shall be subject to the approval of the Engineer. Where the excavation for foundations extends below the water table in common material, the portion below the water table shall be de-watered in advance of excavation. The de-watering shall be accomplished in a manner that will maintain the stability of the excavated slopes and the bottom of the excavation and will result in all construction operations being performed in the dry.

The Contractor shall be required to ensure that the bottom of the excavation is free of water prior to placement of concrete or filling material

During the placing and compacting of fill material in an excavated cut off trench, the water level at every point in the cut off trench shall be maintained below the bottom of the cut off trench until the compacted fill in the cut off trench at the point has reached.

CARE OF WATER

Scope of work

The Contractor shall provide all methods, procedures, labour and materials necessary to protect all existing works under construction and all personnel and equipment. Further he shall design, build, install, operate, maintain, and dismantle any temporary dewatering facilities required to remove service water and natural surface flow or groundwater seepage from the working areas.

Submittals

After the date of issue of the Notice to Commence, the Contractor shall present the Engineer with conceptual details, designs, method statements, procedures and emergency plans for all required protection and dewatering systems.

Extent of the works

The work under "Care of Water" to be performed under this Contract shall include but not be limited to:

- Supply and installation, operation and maintenance of pumping systems for dewatering;
- Control and drainage of the water flows on surfaces against which concrete shall be poured;

Care of water during construction comprises all necessary measures to protect the works from the effects of water from any source during the construction period. The Contractor shall be fully responsible for the care of water during the construction of the works, and the handling of the water supply during construction.

The Contractor shall submit with his Tender his proposal and method statement for taking care of water during construction including quantity, type, capacity, arrangement, location, etc., of all required equipment.

All works shall be executed in accordance with the specifications of this Contract and in agreement with the Engineer. The approval given by the Engineer shall not relieve the Contractor from being fully responsible for the protection of the works.

Execution

DRAINAGE AND DEWATERING SYSTEMS

The Contractor shall design, furnish, construct and install, operate and maintain all care of water facilities, including cofferdams, drainage systems etc. necessary to maintain all work areas as free as possible from water during construction. This shall include all necessary labour, materials, equipment, power supplies and auxiliary works as required for a safe and dry construction of the works.

The Engineer's approval of any care of water facility under the Contractor's responsibility shall not relieve the Contractor of the full responsibility for any adverse event which may result from the inadequacy of failure of the protective structures.

DEWATERING

General

The Contractor shall furnish, operate and maintain all necessary pumps, pipes and other dewatering devices as necessary for keeping all work areas free from water. The Contractor shall be held liable for any damage caused by the failure of the drainage and dewatering systems.

The Contractor shall prepare and submit to the Engineer the design of all temporary drainage and dewatering systems and all auxiliary works required for safe and continuous operation of the drainage and dewatering system throughout the period of the works.

The design and installation shall be such that alterations and extensions of the system during operation are possible.

Diverted or pumped water shall be discharged at locations from which it cannot re-enter the work areas and in a manner which does not cause erosion, pollution, or nuisance to other persons within or adjacent to the site.

Duration of drainage and dewatering

Drainage and dewatering shall continue until construction works are completed to a stage where drainage and dewatering are no longer necessary to prevent damage to the works or neighboring works whether from flooding, hydrostatic pressures, flotation or by any other means to prevent hindrances of any kind. The ceasing of drainage and dewatering measures requires the approval of the Engineer.

Pumping systems and power supply

The Contractor shall seize his power supply and distribution system to have sufficient standby capacity to continue necessary dewatering work in case of failure of his main generating system.

Ready for service condition

The Contractor shall maintain ready for service and regularly clean all dewatering equipment and accessories and shall keep all access clear so that they can safely be used without the risk of accidents.

SETTING OUT WORKS

Existing Survey Date

The Tender drawings included in the bidding document are prepared based on the surveys carried-out by the Engineer during the design stage.

Responsibility for Setting Out

The Contractor shall be solely responsible for the correct setting-out of the Works and shall employ experienced qualified surveyors acceptable to the Engineer for this purpose.

The Contractor shall furnish all materials, labor and equipment including stakes, templates, patterns, platforms and special labor that may be required by the Contractor in setting out any part of the Works.

The Contractor shall give the Engineer not less than 24 hours' notice of his intention to set out, survey or give levels for any part of the Works in order that arrangements can be made for checking the accuracy of the setting out, survey or levels. In order that the Engineer can expedite such checking the Contractor shall as soon as practical supply the Engineer with records in an approved form relating to all reference

pegs and benchmarks in connection to the set out, survey or levels for any part of the Works which are required to be checked.

Contractor's Site Staff

The Contractor shall provide competent qualified survey technicians and the necessary support teams to carry-out all survey necessary to set out the Works in a neat and workmanlike manner.

Survey Operatives for the Engineer

The Contractor shall supply chainmen and laborers as required by the Engineer who are well experienced in such work. Chainmen shall be experienced in assisting Engineer in survey work.

It shall be the discretion of the Engineer to select chainmen and laborers whom he considers reliable and suitable, and the Contractor shall maintain the continuity of this staff.

Detailed Survey

The Contractor shall perform all calculations, surveying and setting out necessary to establish the accurate location of the structures to be constructed.

The Contractor shall submit for the review of the Engineer the methods he intends to employ and the precision he will attain for the setting-out of the Works.

The Contractor shall, under guidance and in the presence of the Engineer, carry out surveys and measurements for record and payment purposes in accordance with the Conditions of Contract.

In the Engineer's own surveying for checking the Contractor's survey results, the Contractor shall render the Engineer all necessary assistance and services for such check surveys.

SURFACE EXCAVATION

Scope of work

This section covers all surface excavation work to be performed under this Contract, which shall consist of removing all existing material of whatever nature to the lines and grades shown on the drawings or as otherwise directed by the Engineer in writing. This work shall include excavating, ripping, loading, hauling, double handling and disposal of materials in designated spoil or stockpile areas, according to these Specifications.

Submittals

Prior to the commencement of any surface excavation, the Contractor shall submit in writing to the Engineer details of the proposed excavation methods and sequences, including necessary safety precautions. Prior to dumping or stockpiling any material, the Contractor shall submit in writing the layout of spoil or stockpile areas to the Engineer and wait the approval in writing. All pertinent data of working methods and provisions for the security, stability and temporary and permanent drainage of the areas shall be included by the Contractor. Details of volumes, material types, heights and grades shall be provided.

Lines and grades

The bottoms of all excavations shall be trimmed to line and grade to the satisfaction of the Engineer.

If, for any reason, excavation is carried out beyond the lines and grades shown on the drawings, the Contractor shall remove the excess material and take the necessary measures to restore the required lines and grades with approved backfill or concrete, at his own expense.

Should the Contractor wish to excavate beyond the limits given on the drawings for his own convenience, he may do so, at his own expense but only with the prior written approval of the Engineer.

Slopes, slides, geological overbreak and unsuitable foundations

If geological conditions during the performance of the work do not permit excavation of slopes as shown on the drawings, or where the material is unsuited to forming a firm foundation for the structures, the

Contractor shall modify the drawings accordingly or issue a direct request to the Engineer to change the grades. The prior written approval of the Engineer is mandatory.

If, in the Contractor's opinion the slopes as shown on the drawings are objectionable, and in his opinion should be changed, he shall obtain the written agreement of the Engineer prior to starting the work on such modified excavation.

If overbreak, slides or rock falls occur, which are due to improper working methods or negligence by the Contractor, and the effective excavated surfaces are beyond the excavation lines shown on the drawings, the Contractor shall remove all excessive material and place suitable and approved backfill material in the excavated voids. This work and material shall not be paid.

Execution

The surface excavation shall be performed by any approved method using any excavating and hauling equipment suitable for the work in accordance with the submitted detailed plans and time schedule or approved modifications thereof. The work areas shall be kept dry and drained.

The work areas shall be kept dry and drained at all times during construction. All final or remaining surfaces shall be protected against damage by erosion and travel of the construction equipment with methods proposed by the Contractor and approved by the Engineer in writing. Any damage caused shall be repaired by the Contractor.

The Contractor shall exercise particular care when excavating in the vicinity of existing structures or those under construction. He shall reinstate any damage to structures or equipment caused by his operations, at his own cost.

The Contractor shall protect the subsoil and particularly the groundwater from contamination by fuel or oil from his equipment.

CLEARING AND GRUBBING.

Clearing means the removal, transport and appropriate disposal of all trees, brush, stumps, fences, existing structures, spoil, debris and other obstructions in the areas to be occupied by the Permanent works, surfaces of borrow and quarry areas, spoil and stockpile areas, and where interfering with the procedure or functioning of the work.

Grubbing means the removal, transport and disposal of all roots, buried logs, foundations of structures (except concrete or masonry in mortar) and other materials foreign to the natural topsoil in the areas to be occupied by Permanent works and surfaces of borrow and quarry areas.

Clearing and grubbing work shall be performed either manually or with mechanical equipment. The Contractor shall make every reasonable effort to salvage such material which may be put to beneficial use.

All materials from clearing and grubbing work shall remain the Employer's property but the Contractor may, subject to written approval from the Engineer, retain any material for his use. Materials which the Contractor does not wish to use shall be disposed of in an approved manner.

Materials to be burnt shall be piled neatly in such a manner and in such locations as to not cause any fire risk and shall be burnt completely so that all material is reduced to ashes.

The Contractor shall have suitable equipment and supplies for fighting fire during the burning of material and shall take all necessary precautions to prevent fire from spreading. Toxic materials such as tyres etc. shall not be burnt but disposed of in the approved manner.

STRIPPING AND LOOSE EXCAVATION

Stripping consists of removing all rubbish, humus, vegetable material and all or part of the organic topsoil in the areas and to the depth as indicated on the drawings or as otherwise directed by the Engineer.

Loose Excavation means general excavation of material such as organic topsoil, clay, silt, sand, gravel, and boulders of up to 75mm thickness and soft or disintegrated rock, which can be removed by common earth moving equipment without ripping or blasting.

Stripping and loose excavation shall be accomplished by proper excavation and hauling equipment suitable for the work which allows for an efficient work progress adapted to the soil conditions encountered.

Excavated materials

All suitable materials from the excavations shall be utilized to the fullest extent practicable as construction materials in permanent and temporary works, subject to the written approval of the Engineer.

The Contractor's excavating techniques shall be such, that as much as practicable, construction materials will be yielded.

The suitable material shall be stockpiled. If the moisture content of excavated materials suitable for backfill is too high after excavation, the material shall be drained and dried in the stockpile until the moisture content is sufficiently reduced to allow placement, or vice versa moistened if too dry.

Disposal of excavated materials

Excavated material, which is not suitable for, or are in excess of the construction requirements shall be disposed of in the spoil area as directed or approved by the Engineer.

The spoil tips shall be located where they will not interfere with the natural flow of streams or rivers or other works. No rock material may be dumped into the river bed.

MISSCELLANEOUS FILL WORKS AND REHABILITATION MEASURES FOR EMBANKMENTS

General

The following paragraph deals with general requirements governing the execution of miscellaneous fill works and rehabilitation measures for embankment structures. The rehabilitation works for the embankment structure shall include but not be limited to the following:

- Backfilling of construction trench
- Other remedial measures within this context as directed by the Engineer.

Standards and codes

Except as otherwise specified in this Specification, all materials and workmanship shall comply in all respects with the requirements of the appropriate standard of code issued by the British Standards Institution, American Society of Testing and Materials, US Corps of Engineers, Technical Methods for Highways, or such other standard as the Engineer may approve, current at the date of Invitation to Tender. If, after the date of Invitation to Tender, there is an amendment to a standard relevant to the Contract, the Engineer will direct whether the amendment is to apply.

The Contractor shall have available in his site office at all times at least one copy of every standard or code referred to in this Specification, and any additional standard or code which may be referred to therein and shall make these available for reference by the Engineer upon request.

The work included in this section shall comply with the requirements of the following standards and codes, except where this specification differs from these standards and codes, in which case the requirements of the Specification shall take precedence:

- ❖ All standards of the American Society for Testing and Materials (ASTM)
- ❖ British Standards (BS)
- ❖ US Corps of Engineers

Submittals

Prior to the start of any works described herein, the Contractor shall submit to the Engineer details of the proposed excavation methods, placement procedures and main equipment for all fill materials. Daily report forms in agreed format detailing the activities shall be submitted to the Engineer for signature.

PLACING FILL

GENERAL

The Contractor shall not commence or perform any fill work using equipment or working methods which deviate in any way from the equipment and methods of execution which have already been approved in writing by the Engineer.

All vegetation, topsoil and any other unsuitable overburden shall be removed from areas on which fill is to be placed. The Contractor shall not begin to place filling material until the Engineer has approved the preparation of the commencing surface.

Where fill is to be placed in trenches, pits and other places the sides of which are supported, those supports which are to be removed shall as far as practicable be withdrawn ahead of the layer of fill to be compacted and all voids left by the supports shall be filled with fully compacted material.

PLACING, MOISTURE CONTROL AND COMPACTION

The fill shall be placed in uniform layers across the full width and length of the area to be filled so that the area is built up evenly and shall be compacted as soon as practicable after deposition. Materials of differing characteristics shall not be mixed in any one layer and each layer shall be free from lenses and pockets of such material. Fill material shall be deposited in such a manner that does not cause segregation.

The fill shall be placed so that the surface is sufficiently even, and the surface shall be graded generally level before compaction operations commence while still having sufficient camber to shed surface water and to avoid ponding. The surface on which fill is to be placed shall be scarified if it is too smooth for proper bonding with the layer of fill to be placed. The moisture content of fill material shall be adjusted by suitable conditioning to be within a range of the optimum moisture content required by this Specification or determined by the Engineer depending on the characteristics of the material, and then compacted.

Compaction equipment shall be capable of achieving the required compaction without having any detrimental effects on the fill material. The equipment shall be carefully checked to ensure that all areas are uniformly compacted for the full width and depth.

BACKFILLING

Unless otherwise shown on the Drawings or specified or instructed by the Engineer, excavations which are to be backfilled shall be filled with suitable material, as defined obtained from the excavations or from approved borrow areas.

When placing fill as backfill the Contractor shall make do allowance for settlement and shall ensure that the final lines and levels are as shown in the Drawings. Any areas which subside shall be made good without delay up to the end of the Defects Notification Period.

REFILLING OR BANKING AGAINST STRUCTURES

The Contractor shall, before the work of backfilling to structures commences, obtain the approval of the Engineer for the material to be used and the methods of the work execution. Prior to the commencement of placing backfilling materials adjacent to structures the location shall be cleared of all remaining concrete forms and other temporary works and shall be subject to the approval of the Engineer. Unless otherwise instructed by the Engineer, backfilling to structures shall not commence until at least 14 days have elapsed after concrete work has been completed. Wherever practicable backfill shall be placed and

compacted evenly on all sides of Permanent Works structures to minimize unbalanced loads on the structures. Such fill shall not contain boulders or any other hard material of a size which in the opinion of the Engineer may result in damage to the structures or incomplete compaction of the fill. The suitable depth of each layer of backfill shall be subject to agreement by the Engineer and shall be dependent on the material source, the placement location and the type of compaction equipment to be used. The moisture content shall be adjusted by suitable conditioning to be within the range + 2% to - 2% of the optimum moisture content, or else within some other range determined by the Engineer depending on the characteristics of the material and compacted to not less than 98% of the maximum dry density "Standard Proctor" (using Method 3.3 or Method 3.4 of Part 4 of BS 1377). Compaction of backfilling materials above structures shall not be permitted with vibrating rollers within 500 mm vertically of the surface of the concrete except with the prior approval of the Engineer. Backfilling materials shall be placed in such a manner that ensures that they can be satisfactorily compacted without damage to the structures.

REFILLING OF TRENCHES

Refilling around pipes is to be carried out as pipe laying proceeds, however no material shall be filled in over the joints or around specials until these have been inspected, tested and approved by the Engineer and permission has been given by him for this refilling to commence. Specially selected soft material without stones shall be used for filling in around the pipework and to a height of at least 150 mm above the top of the pipe, and this material shall be thoroughly and evenly compacted to 98% of the maximum dry density "standard Proctor" (using Method 3.3 or Method 3.4 of Part 4 of BS 1377) unless otherwise required in the Technical Specification or instructed by the Engineer. Unless otherwise specified, in open country away from roads, accesses or built-up areas or where approved by the Engineer the Contractor may then refill the remainder of an excavation from 150 mm above the top of the pipe to the surface of the ground with light compaction. On completion of backfilling the excavation shall be banked to a height of up to 500 mm above the general ground level to allow for settlement, and the Contractor shall be responsible for making good in any area where the back filling subsides below ground level when called upon to do so at any time up to the expiry of the Defects Notification Period without additional payment. Where selected fill is to be placed below the required grade of the underside of the pipe, the amount of selected suitable fill must be sufficient for a layer slightly thicker than that specified to remain after compaction so that after trimming the pipe can be laid true to line and level.

Compaction of Fill

DEFINITIONS

The specified thickness of a layer of fill is the thickness after compaction has been completed. Unless otherwise instructed by the Engineer:

(i) the maximum dry density (MDD) "standard Proctor" and the optimum moisture content at which this density is achieved are the values obtained by BS 1377: Part 4 – Methods 3.3 or 3.4; and

The field density tests called for in the Specification are those described under BS 1377: Part 9 – Methods 2.1, 2.2, or 2.4.

GENERAL REQUIREMENTS

Suitable fill shall be compacted to a dry density not less than 98% maximum dry density "modified Proctor", or else as indicated on the Drawings or directed by the Engineer, expressed as a fraction of the maximum dry density and measured by field density tests. If fill has a moisture content too low to permit the specified dry density to be achieved, the Contractor shall incorporate sufficient water by a method acceptable to the Engineer to permit compliance with the Specification. Such operations shall be included in the Contractor's rates. If fill becomes sufficiently wet to cause serious rutting by construction traffic or heaving under compaction plant and to an extent that the required dry density cannot be obtained, placing and compaction shall forthwith cease and shall not be resumed until the Contractor has taken whatever action may be necessary in accordance with Sub-Clause 1.5.4.3 to restore the fill to a proper condition for compaction.

COMPACTING EFFORT

The fill shall be compacted using the approved type of equipment, the depth of layer and the number of passes determined in accordance with this Technical Specification provided that the required dry density is obtained. If the dry density is not obtained, the depth of layer shall be decreased or the number of passes shall be increased, or the type of equipment shall be changed until the required dry density is achieved.

COMPACTING EQUIPMENT

The type of compact equipment used for fills and backfills shall be proposed by the Contractor and approved in writing by the Engineer. Only after compaction tests have demonstrated the effectiveness of the equipment, it will be approved by the Engineer.

Compaction of material in areas shall be performed by approved suitably sized small rollers, vibrating plates or hand power tampers.

Spreading and grading equipment

The Contractor shall provide and maintain in perfect working condition adequate equipment for spreading and grading of all fill materials in accordance with the specifications.

The number and capacity of the equipment shall be sufficient to fulfill the construction schedule requirements.

Water supply and sprinkling equipment

The Contractor shall provide and maintain in perfect working condition suitable equipment such as pumps, tanks, hoses, etc. to provide water for dust prevention, for adjusting the water content of the materials and to wash in any material into cracks amounting up to 200 l per m³ of fill placed or as directed by the Engineer.

Testing of Materials and Field Control of Compaction

The tests to be carried out by the Contractor, the standard test methods to be used and the testing frequency for materials used during construction and upon completion shall be as detailed in the table below unless an abnormal variability of the results requires a higher frequency. Tests for the maximum dry density and optimum moisture content, the Atterberg limits and particle size analysis shall be made when the placing of fill commences and subsequently in accordance with the minimum test frequencies stipulated in the table below. As a general requirement in addition to the minimum test frequencies given in the table below, not less than three tests of each type shall be performed at each separate fill area.

Test	Test Standard	Minimum Test Frequency
Moisture content	ASTM D 2216	1. Before filling material from any source is used. 2. Thereafter, whichever of the following occurs first: (i) for every 1000 m ³ placed, or (ii) for every 100 m compacted length (iii) at each change of borrow pit source, or (iv) at each change of material, or (v) 21 days after the last test conducted (where the fill location is still active).
Grain size distribution	ASTM D 422	
Specific gravity & absorption	ASTM C 127	
Specific gravity of soils	ASTM D 854	
Atterberg's limits	ASTM D 4318	
Standard Proctor Compaction Test	BS 1377-4	
	ASTM D 698	

COSTS

The tests required by the Technical Specifications or by the Engineer will be carried out by the Contractor in the either Material Testing Laboratory or in other Laboratories proposed by the Contractor and approved by the Engineer. The cost of such tests, including the preparation and transportation of the samples shall be borne by the contractor if not stated otherwise.

FACILITIES FOR ENGINEER TO TAKE SAMPLES

The Contractor shall provide facilities for the Engineer to take samples for testing of any of the fill, concrete or other materials to be incorporated in the Works. Such samples may be taken before or after incorporation into the Works or at any stage during construction at the discretion of the Engineer.

ENVIRONMENT AND SOCIAL MANAGEMENT PLAN (ESMP)

The Contractor shall comply with the provisions in the **Environment and Social Management Plan (ESMP)** annexed in this section without any cost to Employer.

Environmental Control

The Contractor shall:-

- Comply with the provisions of this Section and other environmental protection provisions in the Contract and with the requirements of any statute, by-law, standard and the like related to environmental protection.
- Arrange all work to cause the least possible disturbance to the environment.
- Submit proposals for traffic movement, temporary structures, cleaning up, storage of materials, demolition and the like. Observe the agreed proposals.
- Dispose of all spoil and unsuitable material in accordance with the provisions given in EMP.

Monitoring

The Contractor shall monitor the environmental aspects of the construction and the control measures implemented to minimize any adverse environmental impact. Should the control measures put in place be found to be unsatisfactory as a result of the monitoring then the Contractor shall amend the control measures to provide a satisfactory result.

Environmental Complaints

The Contractor shall maintain a register of all environmental complaints received and shall notify the Engineer of each complaint. Complaints received by the Engineer and referred to the Contractor shall also be recorded in the register.

The Contractor shall investigate all environmental complaints received and where necessary, undertake measures to address the complaint. All measures undertaken to address complaints shall be detailed in the register.

ENVIRONMENTAL INCIDENTS

Should an environmental incident (being environmental nuisance, medium environmental harm, or serious environmental harm) occur during any construction phase, the Contractor shall immediately take the appropriate action to minimize any impact and inform the Engineer. The Contractor shall carry out any instructions received from the Engineer.

The Contractor shall be responsible for the cleanup of any contamination caused by the construction works and no additional payment will be made in this regard.

ENVIRONMENTAL TRAINING

The Contractor shall be responsible for ensuring that all employees (including subcontractors) have received training in relation to the Contractor's environmental operating guidelines.

The Contractor shall ensure that any machinery on site is operated within the appropriate guidelines so as to minimize environmental impact in relation to noise, air and water quality, waste control and contamination. All construction materials used on site shall be utilized in a manner to similarly limit environmental impact.

No additional payment shall be paid to the Contractor and the cost of environmental control measures shall be deemed to have been included in the rates tendered for the Works.

Standard Procedure for Assessing the Requirement of Tree Removals

The Contractor shall comply with the provisions in the **Standard Procedure for Assessing the Requirement of Tree Removals** annexed in this section without any cost to Employer.

LABOR MANAGEMENT PLAN (INCLUDING SITE MANAGEMENT AND CAMP MANAGEMENT MEASURES)

The Contractor shall comply with the provisions in the **Labor Management Plan (Including site management and camp management measures)** annexed in this section without any cost to Employer.

Reference Only

TECHNICAL SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS

1. Electrical System

Nominal system voltage

Between phases	:	400 V
Between phases & neutral	:	230 V
Wiring System	:	Three phase, four wire Earthing
System	:	Solid earthing, TT
System Frequency	:	50 Hz

2. Standards

As a rule, the electrical systems are to be in accordance with the relevant British Standards (BS) and International Electro technical Commission (IEC) publications. All the regulations of regular power supply authorities of Sri Lanka and other relevant authorities are to be strictly followed.

- Electrical Installations within the building have to be according to BS 7671 : 2018 IET Wiring Regulations, Eighteenth Edition
- Specifications for Electrical and Mechanical works associated with Building and Civil Engineering

3. Scope of Work

The Contractor shall carry out the supply, delivery, erection, connection, testing and commissioning of all the equipment and material for completely new Low Voltage Electrical distribution of the proposed building.

Electrical works shall cooperate and coordinate with other services (Mechanical, Plumbing and IT) within the building.

Entire electrical installation shall comply with BS 7671:2018 - Requirements for Electrical

Installations. (IET Wiring Regulation, 18th Edition)

4. Low Voltage Switchgear

4.1. Main Distribution Board (MDB), Floor Distribution Boards (FDBs) and Distribution Boards (DBs)

MDB, FDB/SDBs and DBs shall be of the rigid, either freestanding or wall mounted, metal cubicle type, totally enclosed, dust and vermin protected and factory fabricated in compliance with BS 5486

(IEC 60439) and this specification where applicable. The doors of the panel boards shall be lockable.

The individual panel boards shall comprise of components given in the BOQ/drawing.

Bus bars shall be of tin plated copper, and purity of copper shall be 99.99%.

All the panel boards shall be provided with Bus bars for three phases, neutral and earth and all required PTs, CTs, ELR, contactors, fuses, push buttons, 3 phase indicator lights for incoming and all other required accessories and internal connections.

Before manufacture, the Contractor shall submit detail drawings showing the layout, construction and connection of the distribution boards for the Engineer for approval. The units shall be naturally convection-cooled.

4.2 Consumer Units (CUs)

Consumer Units shall comprise of circuit breaker(s)/switches and electrical equipment as indicated in the BOQ/drawings.

The enclosure of the consumer units shall be made of powder coated steel and provided with a lockable door. CUs shall be in-general flush fronted, suitable for wall recess mounting.

CUs shall comprise the equipment indicated in the drawings together with all terminals, busbars, control wiring, interconnections etc. All internal wiring shall be carried out neatly. Adequate space shall be provided with guide bars to route and terminate final circuit wiring inside the sub distribution boards and consumer units. Finished panels shall be without sharp edges and all exposed screws, bolts and similar fastenings shall be smooth surfaced and protectively plated to prevent rusting.

4.3 LV Moulded Case Circuit Breakers (MCCBs)

Moulded Case Circuit Breakers (MCCBs) shall comply with IEC 60947-2 and be of type tested and reputable make.

MCCB shall be of current limiting type. MCCBs shall have a rated operational voltage of 690V AC (50Hz). All circuit breakers shall be fully tropicalized as standard. MCCBs shall be suitable for isolation according to IEC 60 947-1 and 2 for the rated insulation voltage.

The operating mechanism shall be of the quick-made, quick-break, trip-free type with the speed of operation independent of the operator. The mechanism shall be designed to operate all poles simultaneously during opening, closing and tripping conditions.

The breaker shall be operated by a toggle unless otherwise specified in the schedules, drawings or bill of quantities.

The breaker shall be provided with thermal bi-metallic elements for an inverse time-current trip characteristics to protect against sustained overloads and instantaneous magnetic trip elements for short circuit protection.

Thermal trips and magnetic trips shall be adjustable. A single adjustment shall ensure the setting of all poles in a multi-pole breaker simultaneously.

4.4 Miniature Circuit Breakers (MCBs)

The miniature circuit breakers (MCBs) shall comply with BS 3871 Part 1 and Part 2. MCBs shall be of type tested and reputed make. The current rating and short-circuit breaking capacity shall be as indicated in the drawings and/or bill of quantities. The frame size of all MCBs shall be the same so that they can be easily interchanged. Circuit breaker dollies shall be of the trip-free pattern to prevent closing the breaker on a faulty circuit and they shall be engraved to indicate the ON/OFF position.

4.5 Residual Current Devices (RCD)

Residual current devices (RCDs) shall provide accident protection by interrupting dangerous contact voltages, which may be present in faulty electrical appliances as a result of frame faults, insufficient insulation on misuse. They shall provide a high degree of protection against earth faults, fires and electric shock.

RCD shall conform to BS 4293 and shall be sensitive to pulsating DC fault current.

Each RCD shall consist of a current transformer, a tripping coil with contact assembly, main supply contacts, ON/OFF switch, a test button and a trip-free mechanism, all mounted on robust body of all insulated material. RCD shall be suitable for operation on a 230V, 1-ph, & 400V, 3-ph, 50Hz supply and shall give trouble-free service in the locally prevailing climatic conditions.

The tripping current shall be 30 mA unless otherwise specified.

4.6 Power Analyzers

The following measurements shall be possible with the Power Analyzers.

Instantaneous RMS values

- Active power (kW) and reactive power (kVAR) - total and per phase
- Current (A) – 3 phases and neutral
- Voltage (V) – phase to phase and phase to neutral
- Frequency (Hz)
- Apparent power (kVA)
- Power factor
- Total Harmonic Distortion

Energy values

- Active energy (kWh)
- Reactive energy (kVAR)

Demand values

- Maximum apparent power demand (kVA)

Accuracy of multi-function power meter shall be not less than the following.

Energy and power accuracy: 2%

Current and voltage accuracy : 0.5%

All Current Transformers, Potential Transformers required for Power Analyzers shall be provided.

4.6 Surge Protection Devices (SPDs)

Surge Protection devices (SPDs) installed shall be according to the standard IEC 62305-4.

SPD installed in Incomer Panel (IP) shall be Type 1. Following parameters shall be applicable to this SPD.

Nominal Voltage: 480V

Nominal Discharge Current $\geq 40\text{kA}$

Maximum Discharge Current $\geq 100\text{kA}$

Voltage Protection Level $\leq 1.2\text{kV}$

SPD installed in FDB/SDBs shall be Type 2. Following parameters shall be applicable to these SPDs.

Nominal Voltage: 480V

Nominal Discharge Current $\geq 15\text{kA}$

Maximum Discharge Current $\geq 20\text{kA}$

Voltage Protection Level $\leq 0.75\text{kV}$

5. Cables

5.1 General

The cables shall be sized to comply with the latest regulations for Electrical Installations published by BS 7671:2018 - Requirements for Electrical Installations. (IEE Wiring Regulation, 18th Edition), except where specified sizes of cables are shown on the drawings or detailed elsewhere in the Specifications or Schedules.

Applicable colour coding shall be as follows:

<u>Function</u>	<u>Colour</u>
Phase L1	Brown
Phase L2	Black
Phase L3	Grey
Neutral N	Blue
Earthing	Yellow/green

5.2 Feeder Cables

Feeder cables from the MDB to SDB/ FDBs and from FDBs to Consumer Units/ DBs shall be of XLPE insulated, PVC sheathed, unarmoured, copper conductors or PVC insulated, PVC sheathed, unarmoured, copper conductors or XLPE insulated, Steel Wire Armoured, PVC sheathed, copper conductors as applicable, and shall be of 300/500 or 600/1000 volt grade complying with BS 7889 or BS 6004 as applicable. Fire resistant cables shall be category cwz complied with BS 6387.

All Feeder cables of fire protection system shall be 600/1000V voltage grade for Fire resistant Cables as indicated in BOQ.

Cable sizes shall be as indicated in the drawings and /or bill of quantities.

Valid test reports to BS shall be submitted to all the cable sizes specified in the BOQ.

5.3 Wiring Cables

Cables of final sub-circuits, from distribution boards to lighting points, socket outlets, fan points etc., shall be of PVC insulated PVC sheathed copper conductor cables complying with BS 6346 or BS 6004 as applicable.

5.4 Armoured Cables

Armoured cables can be installed directly buried underground. The cable route shall be approved by the Engineer. All cables buried underground and covered with concrete cable tiles. Cable trench shall not be closed without the consent of the Engineer. Where cable enter building underground or pass paved area they shall be drawn through 100 mm dia. PVC duct. Where specifically indicated, armoured cables may be installed in cable tray.

5.5 Quality Assurance

The manufacturer of the cables shall possess ISO 9001:2000 Quality Assurance Certification valid throughout the delivery period of this tender, for the manufacture of PVC / XLPE cables for the plant where the cables are being manufactured. The bidder shall furnish a copy of the ISO certificate certified as true copy of the original by the manufacture along with the bid.

5.6 Cables - Installation

Cable routes are indicated in the drawings for bid purposes but exact final routing shall be agreed with the Engineer / Consultant.

All work shall be carried out by the Contractor who is to include for the supply and installation of all cables, cable supports, steel work racks and making all necessary terminations. The cables shall be installed and tested in accordance with the appropriate Clauses of BS 7671 (IEE Regulations).

Cables shall at all times be handled with care and every effort made to avoid damage. Unloading, rolling to position and mounting of cable drums shall be carried out efficiently and carefully in the recognized manner and cable shall be pulled from the top of the drum and twisting shall at all times be avoided.

The Contractor shall take particular care to avoid damage to other services which may run adjacent to or across the route of the cables being installed.

All cables shall be firmly and adequately supported from cable hangers for the whole of their length except where they run through pipe ducts, cable trays or buried direct in the ground.

Except for terminations at a factory made switchboard, distribution board or item of switchgear, no joints shall be made between lengths of cable.

6. Cable Trays with Cover

Cable trays shall be return flange perforated type, manufactured with Zink Aluminum plated sheet steel or hot-dip galvanized (after fabrication) sheet steel. The thickness of cable trays shall be greater than or equal to 2mm. Each length of tray shall be securely bolted to an adjacent length with sufficient overlap to prevent sagging and twisting.

The height of the cable tray shall be as per the BOQ. Perforated covers shall be provided to the cable trays. All the accessories such as T joints, Y joints...etc shall be provided as per the requirements.

The cable tray shall be fixed to the structure, either suspended from the upper floor slab or fixed to the adjacent walls using steel brackets and fixing rods. The brackets shall be hot-dip galvanized after

manufacture and all holes are made and finish painted in the same colour as the tray. All fixing rods, associated steel work and nuts shall be galvanized.

7. PVC Trunking

A highest quality PVC cable trunking system manufactured by a reputed manufacturer shall be provided. Cable trunking system shall be a complete system which includes all required components such as base units, lids, couplers, end caps, tees, bends, intersections etc., which shall be purpose made by the manufacturer of the trunking.

Cables shall be retained in the trunking in which the cover is removable, by means of cable retainers at not more than 1.0 m intervals.

8. Cable Ladders

Cable ladders shall be return flange perforated type of mild steel, hot-dip galvanized after manufacture. For ladders up to 300mm wide, thickness shall be not less than 16SWG and for widths above 300mm thickness shall be not less than 14SWG. The cable ladder shall be of sufficient width to take all cables without crowding. Each length of ladder shall be securely bolted to an adjacent length with sufficient overlap to prevent sagging and twisting.

The cable ladder shall be fixed to purpose made steel brackets which shall in turn be fixed to the structure. The brackets shall be hot-dip galvanized after manufacture and all holes are made and finish painted in the same colour as the ladder.

9. PVC Conduits

Conduits which are concealed in building wall plaster and/or in drawn in ceiling void and used for internal lighting and power installation shall be rigid, round PVC tubing conforming to BS 4607 (Metric).

The conduit shall be of sufficiently large section and so arranged with draw-in boxes to allow either an easy draw-in or out of any or all of the cables which must not exceed the number set out in the appropriate table of the BS 7671:2008 - Requirements for Electrical Installations. (IET Wiring Regulation, 18th Edition).

Only 40% of the conduit space shall be used to draw wires.

The conduit system shall be a continuous and effective means of protection for the wiring. The conduit shall be laid as far as possible in straight lines. The conduit is in no part to be under mechanical stress. Exposed PVC conduits will not be allowed.

10. PVC Conduit Boxes

All boxes and fittings shall conform to BS 4607 and shall be made of rigid PVC.

Boxes for switches, sockets, outlets, etc., shall be of rigid PVC and dimensions shall be suitable for fixing switches, sockets and other accessories as applicable.

All boxes shall be provided with tapped brass inserts for fixing the screws and where necessary to comply with the appropriate clauses of the IET Wiring Regulations, with brass earthing terminals.

All adaptable boxes and lids of the same size shall be interchangeable.

11. Lighting Switches

These switches shall be of the flush mounting “rocker action” type complying with BS 3676. The rocker and cover plate shall be constructed of “all insulated” white rigid plastic. The switch mechanism shall be rated at 10A and shall be capable of being used on fluorescent or inductive loads without de-rating. The cover plates shall overlap the boxes.

12. Wiring of Small Power

The wiring system shall consist of PVC insulated PVC sheathed copper cable and PVC insulated protective conductor (earth wire) drawn through concealed PVC conduits or exposed galvanized steel conduits. Conduit system and trunking system shall be installed before drawing the cables.

Wiring may be carried out by using looping method but joint shall not be permitted in runs of cable.

12.1. Socket Outlets – Flush Type

Socket outlets shall be switched, 3-pin (phase, neutral & earth), shuttered, flush mounted type rated for 230V complying with relevant BS, 13A socket outlets (Type G, rectangular pin) to BS 1363.

The finish and thickness of the front plate shall be similar to the lighting switches.

13. Telephone System

The telephone installation work shall include supply, installation and testing of followings.

13.1 Telephone Wires:

Wiring shall be carried out with 0.5mm²Cu/PVC 2 pair telephone cable (comply to BS 4808) in PVC conduits.

13.2 Telephone Outlets

Telephone outlets (comply with BS 5923) shall comprise a flush conduit box with a fixed RJ 11 telephone terminal block and an overlapping white plastic cover plate. The terminal block shall be capable of accepting both incoming and outgoing cables.

13.3. Telephone Junction Box (TJB)

Junction boxes shall be of the sufficient capacity, comprising of a box a Fiber Reinforced Polymer enclosure, containing terminal block of KRONE type. Conduits for the incoming cable shall be provided for service provider from outside to TJB.

14. Data Network System

The data network installation work shall include supply, installation and testing of followings.

14.1 Data Patch panel (DPP)

All data cables shall terminate on the patch panel and the enclosure of the patch panel shall be fabricated in steel powder coated enclosure. Conduits for the incoming cable shall be provided for service provider from outside to DPP. Dimension of the enclosure shall be sufficient to install data network switch.

14.2 Information Outlets

Information outlets shall be sunk type complete with R-145 keystone jack and face plate.

14.3 Cabling and PVC trunking/conduits

- Cat 6 Cables for networked computers.
- PVC Trunking/conduits for laying cables of required length.

All the wires (UTP) have to be laid inside suitable PVC trunking/conduits of required length above the false ceiling, inside the partition walls or berried in plaster. The wires have to be laid from patch panel to each data point.

15. Air Conditioning System

15.1 The manufacturer shall have a minimum of five years' experience in the manufacture of split type Inverter air conditioners, and in addition be awarded with a certificate of ISO 9001 Quality Management System in the respective fields.

15.2 The local agent, who is the sole agent to represent the manufacturer in Sri Lanka, shall have successfully marketed the quoted brand air conditioners in the last three years in the local market.

15.3 The bidder shall provide documents to prove authenticity of the equipment.

15.4 Other documents which the bidders shall submit.

- Customer List
- Catalogues
- Brand names, model and type numbers.

15.5 Location of indoor/outdoor units can be arranged according to the site condition. One year warranty is required for the AC units including free service during the warranty period.

16. Installation

16.1 Mounting Height and Position

The general mounting height is indicated below, otherwise as indicated by the Project Architect.

Where difficulty in locating accessories occurs, the Project Manager shall be informed. Particular attention shall be paid to the positioning of light points in relation to the ceiling, position of switches in relationship to the hanging of door and accessories in relation to fixed furniture, sinks and equipment. Switches shall be installed adjacent to the closing style of the doors. The Contractor shall carefully co-ordinate with equipment/furniture supplier and the Project Manager regarding the final position of the equipment.

17. Earthing System

Earthing System shall be installed according to the specifications in BS 7671:2008 17th Edition. Earth cables originating from consumer units shall be terminated in the respective FDBs. All the earth cables starting from FDB/SDB/DBs shall be terminated in the Main Distribution Board. All the earth cables shall be connected at the MDB. The main earth cable shall be taken out of the building and earthed by a 1.2m length 12mm diameter solid copper earth rod. The earthing pit shall be 450mm x 450mm x 450mm sized and shall be provided with removable covers.

18. Detail design/Working/Shop Drawings

Shop drawings for all panel boards and conduit arrangement shall be provided.

19. Testing, Commissioning and Warranty

Testing of entire electrical installation of the buildings shall be carried out by the Contractor. Test report/certificate as required per BS 7671:2018 - Requirements for Electrical Installations (IET Wiring Regulation, 18th Edition) certified by a Chartered Electrical Engineer shall be submitted. Test reports / certificates shall be submitted, separately for each floor of the building.

Complete Installation shall be tested for the proper function and following tests shall be carried out under the supervision of chartered electrical engineer.

- Measurement of insulation resistance
- Continuity Test
- RCD test for tripping current & time
- Measurement of earth resistance

The contractor shall provide a warranty of one (01) years for the complete system including electrical panels from the date of commissioning

20 Handing Over

20.1 As Built Drawings

After completion of the project the contractor shall handover three sets of A3 size hard copies & 1 set of soft copies in a CD (consisting of PDF version) of As Built drawings to cover the entire installation incorporating all the changes / revisions.

20.2 Manuals and Technical Catalogues

Operation and maintenance manuals and relevant technical catalogues of equipment used in the system shall be handed over in triplicate.

Reference Only



Integrated Watershed and Water Resources Management Project (IWWRMP)

Standard Procedure for Assessing the Requirement of Tree Removals

Reference Only

Standard Procedure for Assessing the Requirement of Tree Removals

1. Planning Stage

- 1.1 Consultancy teams should be appraised by the PMU to pay attention and document the requirement of tree removals at each site.
- 1.2 Consultancy team should discuss with officials of relevant implementing agency on proposed tree removals to identify exact requirement and alternatives explored.
- 1.3 Ground verification on tree removals should be done by team of IA and PMU. Officials from implementing agency and representatives from community organizations shall also participate and records with attendance list be taken. All trees identified for removal should be measured for their Diameter at Breast Height (DBH).
- 1.4 Special attention shall be given if any of the selected trees are considered rare, endemic, religiously, historically or culturally important, or are in roosting/ nesting sites etc. The removal of these trees should be avoided and alternatives sought. Unavoidable removals shall be supported with sufficient justification.
- 1.5 Proposed unavoidable tree removal identified and confirmed at ground verification should be declared and requirement explained to the public at community consultative meetings. The removal should be comprehensive justified with scientific/ engineering support. Sufficient time for community/public feedback shall be provided. All suggestions provided shall be given due consideration.
- 1.6 If public raise key concerns/ questions/ protests/ alternatives, the proposed list of tree removal shall be revisited with the relevant implement agency.
- 1.7 Include finalized tree list in to draft ESMP (scientific justification need for each tree which has identified to be removed). All mitigations and compensatory tree planting activities shall be presented explicitly in the ESMP.
- 1.8 Submit draft ESMP to PMU with all required information and photos on proposed tree removals.

2. Reviewing Stage

- 2.1 ESMPs shall be reviewed by PMU and further discussion with consultancy team will be conducted if necessary.
- 2.2 Field visit will be conducted by the PMU further verify of the requirement of proposed tree removals with officials of relevant implementing agency and representatives of community organizations.
- 2.3 The proposed tree removal list in the ESMP will be revisited post field visit and any necessary amendments will be made if necessary in concurrence with the implementing agency.
- 2.4 The final stage shall be to obtain the recommendations of DSRP (SPELL OUT) on tree removals and further amend list according to the recommendations of DSRP

3. Obtaining Clearance / approvals (responsibility of Implement Agency)

- 3.1 The finalized tree removal list shall be shared with relevant approving officers/ agencies like Grama Niladhari, Divisional Secretariat, District Secretariat, Forest Department, State Timber Corporation, Central Environment Authority/ Provincial Environmental Authority etc. The obtaining of the clearances, where required, will be the responsibility of the implementing agency will be done prior to any removal of trees.
- 3.2 All clearances shall be shared with the PMU and endorsed before the tree removal activities are commenced. If any conflicts arise, the PMU will bring it to the notice of the World Bank E&S team immediately.

4. Awareness program (Implementation Agency / PMU)

- 4.1 Awareness programs for selected contractors shall be conducted on environmental and social impact mitigation measures with special attention on tree protection/removal guidelines.
- 4.2 Contractors shall be strictly advised not to remove trees unless essential. They shall be instructed to follow the ESMP strictly and any deviations shall be notified to the implementing agency and the PMU in advance for necessary action.
- 4.3 The removal of trees will be presented at the project introductory meeting and any other community level meetings.
- 4.4 Continuous field inspection and monitoring shall be conducted with a more concerted focus during land preparation and tree removal period.
- 4.5 Public complaints shall be attended to without delay adopting the protocols in place for GRM

5. Ecosystem restoration (Contractor)

5.1 Contractor shall carry out recommendations provided in the ESMP on remedial mitigation involving planting and maintenance of suitable tree species (as identified in the ESMP).

6. Monitoring and Evaluation (PMU/ Implementing agency)

6.1 Field inspection and monitoring will be carried out at regular intervals by the implementing agency and the PMU. Photographic evidence will be recorded for all tree removal activities.

6.2 Upon completion of required tree removal activities, site shall be evaluated to ensure that no further destruction has occurred. If satisfied, final clearance to proceed will be granted by the PMU.

6.2 If not satisfied, the contractor will be directed to utilize retention fund to carry out ecosystem restoration to the satisfaction of the implementing agency and the PMU. The WB E&S team shall also be notified under such circumstances.

Reference Only

Integrated Watershed and Water Resources Management Project (IWWRMP)

Checklist for Tree Removals.

Name of the Site

Date

No	Item/ Activity	YES	NO	Remarks										
1	Tree removal has been identified in ESMP													
2	List of tree removals with justification has been included in to ESMP (approved by WB													
3	Ground verification done by PMU													
4	Ground verification done by DSRP													
5	According to no 3 &4, Amendments included in to final tree removal list													
6	Conduct final community consultancy and briefing on tree removals by IA/PMU													
7	According to no 6, Any disagree / not at													
8	If disagree, did any change in the list													
9	Obtained necessary clearance													
	GN		Di.S		DS		FD		CEA		P.EA		A.Dep.	
10	Written inform to authorized officers/institutes													
	GN		Di.S		DS		FD		CEA		P.EA		A.Dep.	
11	IA agreed to closely monitor of tree removals (in written)													
12	Awareness on tree removals carried out for contractor to the satisfaction of PMU.													

GN- Grama Niladhari, Di.S – Divisional Secretary, DS – District Secretary, FD – Forest Department, CEA- Central Environment Authority, P.EA- Provincial Environment Authority, A.Dep. – Archeology Department, IA- Implementing Agency, PMU – Project management Unit. Use “√” mark in relevant box)

.....

According to the checklist, proposed tree removal is in order.

Signature / Date

Environment Specialist (IWWRMP)

.....

Signature /Date

Project Director (IWWRMP)

Declaration of Implementing Agency

I hereby certify that, proposed tree removal will be done under my direct supervision and responsible to maintain and follow required condition given by authorized / approving agencies.

.....

Signature /Date

Officer In-charge/ IA



Integrated Watershed and Water Resources Management Project (IWWRMP)

**Ministry of Agriculture, Livestock, Lands
and Irrigation**

**Labor Management Plan
(Including site management and camp
management measures)**

Abbreviations

IA	-	Implementing Agency
IWRMP	-	Integrated Watershed and Water Resources Management Project
LMP	-	Labor Management Plan
PMU	-	Project Management Unit
PHI	-	Public Health Inspector
GBV	-	Gender Based Violence

Reference Only

Introduction

Labor Management Plan (LMP) of the Integrated Watershed and Water Resources Management Project (IWWRMP) provides basic guidance to contractors to smoothly operate project activities without creating harm to workers and communities. Selected contractors shall follow this plan including relevant national labor management laws, regulations and practices. The labor management plan consists of site management measures and camp management measures which outlines a range of mitigation measures designed to avoid or reduce undesired labor management, site management and camp management impacts during construction.

The plan has been prepared by structuring relevant major subject areas that need to be paid attention to and providing mitigation measures including details of responsible entities for implementation and frequency of monitoring to the identified risks and potential impacts.

Objectives of the plan

The objectives of the labor management Plan are:

- Avoid or reduce negative impacts on environment due to establishment of project sites.
- Establish standards on worker welfare and living conditions at the camps that provide a healthy, safe and comfortable environment.
- Avoid or reduce negative impact on community and maintain constructive relationships between local communities and workers' camps.

Roles and responsibilities

- Contractor shall ensure sufficient resources are allocated on an ongoing basis to meet the requirements of this Plan.
- Contractor shall strictly adhere to national labor acts, rules and regulations pertaining to terms and conditions of employment and labor management.
- The Contractor shall pay attention to implement labor management plan monitor the progress.
- Contractor shall facilitate to PMU or IA to monitor the progress of LMP.
- Contractor shall comply to make necessary amendments to the LMP after the site inspections of PMU, IA or authorized entity.
- Contractor shall comply to ensure that all workers sign the GBV Code of Conduct (CoC), provide necessary awareness and trainings to laborers about rules and regulations, guidelines and general information time to time.

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
1	Plan basic arrangements of worksite management	Site identification and demarcation	Contractor should identify the exact area of work site before start project activities.	Site engineer & Contractor	-
			Contractor should plan the work site to identify appropriate places for site office, labor camps, yards, stores, parking areas etc.	Site engineer & Contractor	-
			Contractor should obtain relevant approvals from IA and site engineer.	Contractor	-
			Fence or protective measure should be placed around the work site.	Contractor	-
		Control public access to work site	All public access to the work site should be prohibited or controlled to avoid risk to the public.	Contractor	Monthly
			Signboards should be displayed at all entry points which indicating "Authorized entries only" or "prohibited to public entrance".	Contractor	Monthly
			Contractor shall take action to establish a temporary security point at the entrance and assigned a person to duty for 24 hrs. for security of the site and monitor vehicle and monitoring transfer of goods into and out of camps.	Contractor	Weekly
			A register shall be maintained at the security point to register all laborers/officers/vehicles which enter / departure to/from the work site.	Contractor	Weekly
		Disclose of basic information to workers and interest groups	Contractor should established signboards at the main entry point to display detailed information of the proposed project.	Contractor	Monthly
			Safety signs should be displayed at the entrance and other necessary places at the work site.	Contractor	Monthly
			Contractor should established a notice boards at the work site and necessary information should be displayed in time to time.	Contractor	Monthly
			Contractor should establish a notice board on COVID 19 health guideline at the entrance.	Contractor	Monthly
		Establishment of site office	Contractor should established a site office according to the site plan and should maintain appropriate working condition.	Contractor/ Site engineer	-
			Necessary documents (guidelines, ESMP, copy of approvals etc.) should be placed at the site office.	Contractor	Monthly

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			First aid box with essential drugs should be placed at the site office.	Contractor	weekly
			Fire protection equipment should be placed at the site office.	Contractor	Monthly
			Contractor should maintain an extra stock of safety equipment at site office to issue when necessary.	Contractor	Monthly
			Hazards, explosives or any harmful chemicals should not stock in the site office.	Contractor	weekly
2	Plan work site arrangement	Readiness for emergency response	Contractor shall develop an emergency response plan that meets requirements of emergency situation.	Contractor	-
		Ensure the safety of workers	Contractor should be placed temporary fences/ barricade tapes or protective measures to identify working areas, heavy machinery operating areas and areas where having deep excavations and activities of hazardous nature for the workers.	Contractor	Every 2 weeks
			Specific area in the site should be reserved to store construction materials.	Contractor	Monthly
			Specific area place/ rooms should be reserved for store Hazards, explosives or harmful materials or chemicals.	Contractor	Weekly
			Materials should stock piled without exceeding approved height.	Contractor	Monthly
			Areas should be demarcated to park vehicles/ heavy machines or vehicle repairing and relevant sign boards should be displayed.	Contractor	Monthly
			All vehicles used by any contractor for the purpose of the project will have valid registration, insurance and road worthiness.	Contractor	Daily
			Fire protection equipment should be established in the work site at most essential places.	Contractor	Every 2 weeks
			The contractor shall take action to strictly follow the COVID 19 operational guideline declared by the Ministry of Health at work site.	Contractor	Once a week
			Workshops, Stores, should establish according to the approved site plan.	Contractor	-

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			Equipment (including power tools) should store properly, listed and assigned a person to issuing and receiving.	Contractor	Weekly
3	Establishment of Pollution Control measures	Control of Dust and emission,	Stock piled materials should be covered with appropriate cover or sprinkling water to control dust emission.	Contractor / Site engineer	Daily
			Dust emission form earth works (when operating) should controlled by sprinkling water.	Contractor / Site engineer	Daily
			Contractor should take action to transport excavated debris to approved dumping sites and should not store at work site.	Contractor / Site engineer	Daily
		Control of noise and vibration	Contractor shall adhere to strictly follow given condition for noise limits and vibration limits (day and night)	Contractor / Site engineer	Daily
		Control of water pollution	Silt traps should be established in relevant places.	Contractor / Site engineer	Monthly
			Proper solid waste management mechanism should be established in the work site.	Contractor / Site engineer	Daily
			Precautions should be established to avoid oil, fuel or lubricant contamination.	Contractor / Site engineer	Daily
		Final clearance and restoration of worksite	After the completion of project activities contractor shall carefully remove all temporary buildings, huts, stocked piled materials, temporary blocks of streams etc. form the work site and follow up the approved site restoration actions.	Contractor / Site engineer/PMU	-
4C	Labor management measures	Adhere to laws and regulations	No labor under the age of 18 will be hired for work under this contract.	Contractor	Daily
			Contractor shall strictly follow relevant national labor laws and acts related to terms and conditions of employment (i.e. related to salary payments, working hours, leave etc.) and issue employment letters/contracts to workers with details of the employment terms/conditions.	Contractor	-
			Contractor shall obtain necessary approval when increased the number of workers in labor camps	Contractor	-
			Contractor shall maintain a log of any grievances/complains and actions taken to resolve them.	Contractor	Weekly

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			Any complaints related to sexual harassment / gender based violence should be immediately reported to the PMU who in turn will report to World Bank for necessary guidance on the actions to be taken.	Contractor	
			Workers shall abide by camp rules which includes a disciplinary process.	Contractor	Daily
			Contractor shall limit workers interaction with community when outside the camp.	Contractor	Daily
			Contractor's personnel shall not engage in any discrimination or harassing behavior.	Contractor	Daily
		Arrangement for conduct basic awareness for workers	Contractor shall take action to develop labor code of conduct and translated it in to local languages upon clearance from the Engineer. The code of conduct must be made available to all staff and displayed in the work site in local languages. All workers will be required to sign the Code of Conduct.	Contractor	Monthly
			Contractor shall give necessary advices and instructions to all labors and drivers of the site to follow code of conducts.	Contractor/Site engineer/IA/PMU	When necessary
			Contractor shall take action to conduct labor awareness programs to educate the laborers about the code of conduct, general conduct, the Environmental and Social Management Plan, Occupational Health and Safety etc.	Contractor/Site engineer/IA/PMU	When necessary
		Labor safety and welfare facilities	Contractor shall provide sufficient safety gears to labors and need to monitor the utilization.	Contractor/ Site engineer	Daily
			Contractor shall take action to follow safety measures specially in handling of explosives, hazard chemicals, electricity etc.	Contractor/ Site engineer	Daily
			Contractor shall provide equal facilities / standards for all labor camps in the site and do not make any differences on worker's race, gender or nationality.	Contractor/ Site engineer	Daily
			Contractor, as appropriate, shall provide adequate recreation facilities for workers to reduce incentive for leaving camps during leisure time.	Contractor/ Site engineer	Monthly
			Contractor shall pay more attention and provide better quality safety equipment to the workers who are engaging	Contractor	Daily

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			with danger/ risk activities.		
		Recognition of cultural, nationality, religion rights.	Contractor may provide prayer rooms and other facilities, as necessary and to the extent practicable, to satisfy the religious needs and customs of its workforce. (if necessary)	Contractor	Monthly
5	Labor Camp management	Planning of Labor camps	Labor camps shall be established according to the approved site plan.	Contractor/ Site engineer	-
		Address community grievances	PMU or IA may request that camp related activities/operations be amended to address community grievances. Contractor shall comply with these requests.	Contractor	-
			Establishment of labor camps shall be commenced only upon the written approval of the Engineer.	contractor	-
			IA/ PMU may request that camp related activities/operations be amended to address community grievances. Contractor shall comply with these requests.	Contractor	-
		Maintain health condition	Contractor shall comply with the minimum health requirements for project execution and the community Health and Safety Management Plan which set out requirements and management measures in controlling communicable diseases within camps and to provide communities.	Contractor	Daily
			Contractor shall routinely monitor the quality and supply of water and other health related facilities.	contractor	Monthly
		Maintain Living and hygienic conditions	Contractor shall be maintained necessary living accommodation and ancillary facilities in functional and hygienic manner and as approved by the Engineer.	Contractor	Monthly
			Contractor should provide separate resting and sanitary facilities for both men and women laborers.	Contractor	Monthly
			All temporary accommodation should be established and maintained in such a fashion that uncontaminated water is available for drinking, cooking and washing.	Contractor	Monthly
			Washrooms should have sufficient and proper water supply.	Contractor	Weekly
			Drinking water facility should be provided to labor camps.	Contractor	Daily

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			COVID-19 health guideline shall be applied at the labor camps and throughout the work site.	Contractor	Daily
			Adequate Personal protective equipment (PPE) will be provided to workers, including: Facemasks, gloves, etc., if possible, to prevent COVID-19 spread	Contractor	Daily
		Application of Waste management measures	The sewage system for the camp, if not available, shall be planned & implemented with concurrence from the Local Public Health Officer (PHI).	Contractor/ Site engineer	-
			Proper solid waste management system (waste collection method/ separation method and final disposal method) should be established at labor camps.	Contractor	Weekly
			Waste water (from kitchen, wash rooms, canteen etc.) should not release into open water bodies or streams.	Contractor	Weekly
		Final clearance and camp demolishing	After the completion of project activities contractor shall carefully remove all temporary buildings, huts, labor camps, toilets form the work site. Temporary toilet pits should treat and demolish accordance to approved health guidelines. Approved site restoration actions should implement.	Contractor/IA/ PMU	-

Individual Code of Conduct

Implementing ESHS and OHS Standards

Preventing Gender Based Violence

I, _____, acknowledge that adhering to environmental, social, health and safety (ESHS) standards, following the project's occupational health and safety (OHS) requirements, and preventing Gender Based Violence (GBV) is important. The Company considers that failure to follow ESHS and OHS standards, or to partake in activities constituting GBV—be it on the work site, the work site surroundings, at workers' camps, or the surrounding communities—constitute acts of gross misconduct and are therefore grounds for sanctions, penalties or potential termination of employment. Prosecution by the Police of those who commit GBV may be pursued if appropriate.

I agree that while working on the project I will:

1. Consent to Police background check.
2. Attend and actively partake in training courses related to ESHS, OHS, and GBV as requested by my employer.
3. Will wear my personal protective equipment (PPE) at all times when at the work site or engaged in project related activities.
4. Take all practical steps to implement the contractor's environmental and social management plan (C-ESMP).
5. Implement the OHS Management Plan.
6. Adhere to a zero-alcohol policy during work activities, and refrain from the use of narcotics or other substances which can impair faculties at all times.
7. Treat women, children (persons under the age of 18), and men with respect regardless of race, color, language, religion, political or other opinion, national, ethnic or social origin, property, disability, birth or other status.
8. Not use language or behavior towards women, children or men that is inappropriate, harassing, abusive, sexually provocative, demeaning or culturally inappropriate.
9. Not sexually exploit or abuse project beneficiaries and members of the surrounding communities.

10. Not engage in sexual harassment of work personnel and staff—for instance, making unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature is prohibited. E.g. looking somebody up and down; kissing, howling or smacking sounds; hanging around somebody; whistling and catcalls; in some instances, giving personal gifts.
11. Not engage in sexual favors—for instance, making promises of favorable treatment (e.g. promotion), threats of unfavorable treatment (e.g. loss of job) or payments in kind or in cash, dependent on sexual acts—or other forms of humiliating, degrading or exploitative behavior.
12. Not use prostitution in any form at any time.
13. Not participate in sexual contact or activity with children under the age of 18—including grooming, or contact through digital media. Mistaken belief regarding the age of a child is not a defense. Consent from the child is also not a defense or excuse.
14. Unless there is the full consent¹ by all parties involved, I will not have sexual interactions with members of the surrounding communities. This includes relationships involving the withholding or promise of actual provision of benefit (monetary or non-monetary) to community members in exchange for sex (including prostitution). Such sexual activity is considered “non-consensual” within the scope of this Code.
15. Consider reporting through the GRM or to my manager any suspected or actual GBV by a fellow worker, whether employed by my company or not, or any breaches of this Code of Conduct.

With regard to children under the age of 18:

16. Bring to the attention of my manager the presence of any children on the construction site or engaged in hazardous activities.
17. Wherever possible, ensure that another adult is present when working in the proximity of children.
18. Not invite unaccompanied children unrelated to my family into my home, unless they are at immediate risk of injury or in physical danger.
19. Not use any computers, mobile phones, video and digital cameras or any other medium to exploit or harass children or to access child pornography (see also “Use of children's image for work related purposes” below).
20. Refrain from physical punishment or discipline of children.
21. Refrain from hiring children for domestic or other labor below the minimum age of 14 unless national law specifies a higher age, or which places them at significant risk of injury.
22. Comply with all relevant local legislation, including labor laws in relation to child labor and World Bank’s safeguard policies on child labor and minimum age.

¹ **Consent** is defined as the informed choice underlying an individual’s free and voluntary intention, acceptance or agreement to do something. No consent can be found when such acceptance or agreement is obtained using threats, force or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if national legislation of the country into which the Code of Conduct is introduced has a lower age. Mistaken belief regarding the age of the child and consent from the child is not a defense.

Use of children's images for work related purposes

When photographing or filming a child for work related purposes, I must:

23. Before photographing or filming a child, assess and endeavor to comply with local traditions or restrictions for reproducing personal images.
24. Before photographing or filming a child, obtain informed consent from the child and a parent or guardian of the child. As part of this I must explain how the photograph or film will be used.
25. Ensure photographs, films, videos and DVDs present children in a dignified and respectful manner and not in a vulnerable or submissive manner. Children should be adequately clothed and not in poses that could be seen as sexually suggestive.
26. Ensure images are honest representations of the context and the facts.
27. Ensure file labels do not reveal identifying information about a child when sending images electronically.

Reference Only

Sanctions

I understand that if I breach this Individual Code of Conduct, my employer will take disciplinary action which could include:

1. Informal warning.
2. Formal warning.
3. Additional Training.
4. Loss of up to one week's salary.
5. Suspension of employment (without payment of salary), for a minimum period of 1 month up to a maximum of 6 months.
6. Termination of employment.
7. Report to the Police if warranted.

I understand that it is my responsibility to ensure that the environmental, social health and safety standards are met. That I will adhere to the occupational health and safety management plan. That I will avoid actions or behaviors that could be construed as GBV. Any such actions will be a breach this Individual Code of Conduct. I do hereby acknowledge that I have read the foregoing Individual Code of Conduct, do agree to comply with the standards contained therein and understand my roles and responsibilities to prevent and respond to ESHS, OHS, GBV issues. I understand that any action inconsistent with this Individual Code of Conduct or failure to act mandated by this Individual Code of Conduct may result in disciplinary action and may affect my ongoing employment.

Signature: _____

Printed Name: _____

Title: _____

Date: _____

Section - 7
Form of Bid
Reference Only

FORM OF BID

Name of Contract:.....

Bidding No:.....

To: Project Director, Integrated Watershed & Water Resources Management Project, Project Management Unit, 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07.

Gentlemen:

1. Having examined the Standard Bidding Document - Procurement of Works – Major Contracts [ICTAD/SBD/02 - Second Edition, January 2007], Specifications, Drawings and Bills of Quantities and Addenda for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Conditions of Contract, Specifications, Drawings, Bills of Quantities and addenda for the sum of Sri Lankan Rupees
.....
.....
(LKR) or such other sums as may be ascertained in accordance with the said Conditions.
2. We acknowledge that the Contract Data forms part of our Bid.
3. We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.
4. We agree to abide by this Bid until the date specified in ITB Clause 16 [insert date], and it shall remain binding upon us and may be accepted at any time before that date.
5. Unless and until a formal agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us.
6. We understand that you are not bound to accept the lowest or any bid you may receive.
7. We certify/confirm that we comply with the eligibility requirements as per ITB Clause 3 of the bidding documents.
Dated this day of 20.....
Signature (with official seal)
in the capacity of
duly authorized to sign bids for and on behalf of
[in block capitals or typed]
Name:
Designation:
Address:
Witness:

Section – 8
Bill of Quantities

Reference Only

PRICING PREAMBLES

- 1) The Bill of Quantities shall be read in conjunction with all parts of this entire Bidding Document; the Instructions to Bidders, General and Particular Conditions of Contract, Technical Specifications, Drawings, and supplementary information.
- 2) The Bill of Quantities includes lump sum items, unit price items and provisional sum items. The lump sum price quoted will be deemed to be full compensation for completion of work items and paid in full when the work is completed.
- 3) The quantities given in the Bill of Quantities for the unit price items are estimated and provisional, and are given to provide a common basis for bidding. They are not intended to be the maximum or minimum quantities for payment. The unit prices will be considered full compensation for those work items. The basis of payment will be the actual quantities of work carried out under the provisions of the Contract, measured and valued at the applicable rates and prices in the priced Bill of Quantities.
- 4) The Contractor shall not use this-Bill of Quantities as a Construction programme or for the purposes of ordering materials or arranging Sub-Contracts. The references for these activities shall be the drawings, specifications and instructions issued by the Engineer.
- 5) The quantities set out in the Bill of Quantities are provisional and cover the approximate scope of the work, which is anticipated to be performed by the Contractor. The Contractor shall not be entitled for overhead charges or any other costs, or loss of profits where actual measured quantities become less than the quantities set out in the Bill of Quantities.
- 6) The rates and prices in the priced Bill of Quantities shall, except as otherwise provided under the Contract, include all construction plant, equipment, labour, supervision, materials, transport, erection, maintenance, testing, insurance, overheads, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 7) A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
- 8) The rates and prices entered in the Bill of Quantities shall be full compensation for completed work and shall have taken full account of all requirements and obligations, covered by all parts of the contract, including but not limited to, the following, unless expressly stated otherwise:
 - a. All setting out and survey works including Pre and Post Construction Surveys.
 - b. All additional site surveys and investigations, preparation of field amendment drawings, shop drawings and As-Built drawings.

- c. Mobilization and Demobilization of labour, all construction plant and equipment.
- d. Establishment, Maintenance and Removal of all temporary facilities (Contractor's and Engineer's) including offices, workshops, houses, labour camps construction and storage yards, Laboratory facilities and Equipment, Transport for staff and labour etc.
- e. Labour and all costs in connection therewith, including but not limited to social charges or fringe benefits.
- f. The supply of material and goods, storage and costs in connection therewith including delivery to site and handling material within the site/sites.
- g. Taking delivery of materials and goods supplied by others, unloading, storage, handling materials within site, and costs in connection therewith.
- h. Construction Plant & Equipment and all costs in connection therewith.
- i. Fixing, erecting and installing or placing of materials and goods in position, including usual auxiliary material etc.
- j. Temporary Works.
- k. Complying with any limitations and constraints on the use of the site/sites including coordinating with other Contractor's, with regard to site access, security etc., maintenance of access to households and other users, maintenance of existing roads, waterways etc.
- l. Dealing with the existing flow of water from any source including rainfall and surface runoff, groundwater, wave action and the like. This includes all and any dewatering operations necessary for the execution of the Works.
- m. General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based.
- n. Overheads and profit.
- o. Waste of material.
- p. Attendance and transport for sampling and testing carried out by the Engineer.
- q. Performing all sampling and testing which are required to be carried out by the Contractor, and supplying results of such tests.
- r. Providing required material delivery certificates.
- s. Coordination with Regulatory Institutes & all stake holders.
- t. Disposal of all waste material.

- u. Complying with all requirements in Specifications and Conditions of Contract where separate items have not been provided.
- 9) General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
 - 10) Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part or not at all at the direction and discretion of the Engineer and in accordance with the Conditions of Contract. Where the expenditure against a Provisional Sum is made in the form of a Variation, the payment for the work will be made in accordance with relevant Clauses for Variations of the Conditions of Contract.
 - 11) Unit rates and extensions shall be given in Sri Lankan Rupees (Rs.) to a maximum of two decimal places.
 - 12) The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
 - 13) Unless otherwise specified, completed works shall be measured net as fixed in position and each measurement shall be taken to the nearest 10 millimeters. The quantities shall be rounded up to two decimal places.
 - 14) All measurements are net and the rates shall include for laps, waste, working space and trade or traditional allowances.
 - 15) The method of measurement applicable is the method adopted in the preparation of Bill of Quantities. In case of ambiguity regarding method of measurement, **SLS573:1999 (first revision)** shall be referred. However, the method adopted in the preparation of Bill of Quantities shall prevail over SLS573.
 - 16) Items in the preamble section of this bill of quantities are deemed to qualify and to form part of every description of measured work to which they refer including composite items.
 - 17) Payments for items marked Lump Sum which relate to a specific work item will be paid on the basis of the proportion of actual work done to the total work of that specific item, as assessed by the Engineer, unless otherwise stated in the Bill of Quantities. Moreover, the Contractor shall submit detailed breakdown of Sum/Lumpsum/Composite items quoted under respective BOQ items after award of the Contract.
 - 18) The bidder shall visit the site and acquaint themselves with all existing conditions, the nature and extent of work to be done under this contract ascertaining the conditions governing access to the site, the extent of work and accordingly include for in their prices.

- 19) The following abbreviations are used in the Bill of Quantities and shall carry the meanings as listed hereunder:-

mm	-	Millimeter
m	-	Liner meter
m ²	-	square meter
m ³	-	cubic meter
Kg	-	Kilogram
T	-	metric ton
nr	-	Number
Hr	-	Hour
Rs.	-	Sri Lankan Rupees
BOQ	-	Bill of Quantities
BS	-	British Standard

- 20) The Payment methods for preliminary items shall be as per the following Table.
(Based on the CIDA guidelines for preparation of preliminaries – Second edition-June 2009)

Mode of payment	Category
Reimbursement of actual cost on submission of the relevant documents acceptable to the Engineer plus 5% of the actual cost of obtaining the Insurance Policies and Securities.	A
To be paid on signing of the formal Contract Agreement	B
60% on completion of temporary buildings or structures, 30% in equal instalments over the Contract period and balance 10% on dismantling and removal on completion.	C
Paid on satisfactory completion of the item.	D
In equal instalments over the Contract period.	E
Mode of payment to be mutually agreed between Contractor and the Employer at the commencement of contract in relation to the programme of work.	F
On completion of the Works	G

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	B-PRELIMINARIES					
B1	The tenderer shall price only those items on which he would incur expenses and state "NIL" against all others. All temporary works shall be dismantled and cleared away from site on completion	note				
B2	The tenderer is required to visit the site of the proposed work, as it is his responsibility to ascertain the conditions, governing access to the site, the external working space storage area, etc.	note				
B3	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners, guests or public.	note				
B4	All precautions to be taken for protecting existing adjacent properties.	note				
B5	Any other preliminary items not listed below but deemed to be included to be in the tender rates	note				
B6	The Mode of Payment Category should be referred from this document as A,B,C,D,E,F,G according to Guidelines for Preparation of Bill No.01- Preliminaries for Building Works published by the Construction Industry Development Authority (CIDA) at, "Savsiripaya", 123 Wijerama Mawatha, Colombo 07. (Publication No. ICTAB/P/041 Second Edition - June 2009) <u>Insurance & Securities</u>	note				
B7	Providing a Performance Security. (Payment category A)	P.sum			250,000.00	
B8	Providing an Advance Payment Security. (Payment category A)	P.sum			670,000.00	
B9	Insurance of Works, Materials, Plant, Machinery & Equipment (CAR) as per the contract. (Payment category A)	P.sum			300,000.00	

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
B10	Insurance of Third party personnel & property, Employer's personnel & property , Engineers' personnel and property as per the contract. (Payment category A)	P.sum			300,000.00	
B11	Insurance against accidents and injury to Contractor's personnel including workmen compensation as per the Contract. (Payment category A) <u>Employer's Facilities</u>	P.sum			400,000.00	
B12	Constructing, maintaining, dismantling and removal on completion of the works, a temporary building for Employer's office with 30.0m2 floor area in conformity with the plans prepared by the Contractor and concurred by the Engineer, with necessary lockable doors, windows etc. including following facilities.(Payment category C)	note				
B12.1	For temporary building with AC facility & toilet facilities	L.sum				
B12.2	For lockable steel cupboard (approx. size 900mmx450mmx1800mm)	L.sum				
B12.3	For 3 no table with lockable drawers with 03 no arm chairs	L.sum				
B12.5	For 6 no Chairs	L.sum				
B13	Providing electricity and water with water filter services including drinking water for Employer's site office (Payment category D)	L.sum				
B14	Maintenance, rental, consumption charges etc. for electricity and water services including portable water for the Employer's site office (Payment category E)	L.sum				

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Contractor's Facilities</u>					
B15	Construct, maintain, and upon completion of the Works, dismantle and remove a temporary site office of adequate size for the Contractor's site management staff and workmen. The facility shall include site offices, staff rest rooms, toilets, workshops, stores, workers' rest room, kitchen, sick/first aid room, sanitary facilities, and all other necessary ancillary facilities. The layout and construction shall be in accordance with plans prepared by the Contractor and concurred by the Engineer. (Payment Category C).	L.sum				
B16	Provide electricity and water supplies for the Contractor's site office and for use in connection with the Works. (Payment Category D).	L.sum				
	Note: The Contractor shall provide and maintain telephone and internet facilities at the site at the Contractor's own cost.					
B17	Maintenance, rental, consumption charges etc. for electricity and water for the Contractor's site office for their use and in connection with the works (Payment category E)	L.sum				
	<u>Quality, Standards and Progress</u>					
B18	Providing progress reports including photographic records and schedules included in the ICTAD publication- Guidelines for Effective Construction Management. (ICTAD/CM/01), relevant to contract administration as directed by the Engineer. (Payment category E)	L.sum				
B19	Providing shop drawings, bar schedules etc. for Engineer's approval.(Payment category E)	L.sum				
B20	Providing hard copies and soft copies of as-built drawings as per there specification.(Payment category D)	L.sum				

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Health Safety and Environment</u>					
B21	Providing & maintaining a name board approximately 2.1mx1.5m size with GI frame at 2.1 m above ground level as directed for construction period. (Payment category C)	L.sum				
B22	Maintaining all areas to be in good hygienic conditions including toilets, wash areas, kitchen etc. Including supplying adequate soap, detergent etc. throughout the period of construction. (Payment category E)	L.sum				
B23	Providing all necessary safety measures to workmen at site confirming to latest industrial safety regulations and as directed by the Engineer. (Payment category E)	L.sum				
B24	Making adequate provisions against safety, air and noise pollution of surrounding areas. Safety net, Hoarding and dust screens shall be provided. (Payment category E)	L.sum				
B25	Providing & maintaining necessary fencing around working area.	L.sum				
B26	Maintain the site in a clean and ordinary manner at all times and during the entire contract period. (Payment category E)	L.sum				
B27	Demobilization, removal of all rubbish & debris and clearing up site on completion, leaving all in good order and handing order. (Payment category G)	L.sum				
B28	Implementation of any special mitigation measures or specific recommendations arising from the final world bank cleared ESMP. (General Environmental , Social, Health and Safety measures to be conducted by the contractor and the Rate shall include to the respective rates for those measurments)	P.sum			200,000.00	
	TOTAL FOR PRELIMINARIES					
	CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	C - DEMOLITION					
C1	A brief description of the structures to be demolished is given below as a guidance for pricing. The tenderer is required to visit the site and inspect the type and extent of demolishing work to be done prior to pricing these items.	note				
C2	All useable materials in demolished parts shall be the property of the Employer.	note				
C3	Necessary approvals to be taken from suitable authority prior to disposal of demolished parts.	note				
	<u>DEMOLITIONS</u>					
	<u>Structures</u>					
C4	Demolition of existing foundations, wall sections, soakage pits, septic tanks, paving etc. inclusive of grubbing up of all foundations & filling all voids with imported earth up to ground level and careful removal of such demolition work.	L.sqm				
	TOTAL FOR DEMOLITION CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	D - EXCAVATION AND EARTHWORKS					
	<u>Site Preparation</u>					
D1	Clearing site vegetation and disposal of material away from site	m ²	500.0			
D2	Removing of trees and stumps Girth 500-1000mm, Disposal of material with the approval of client	nr	5.0			
D3	Removing of trees and stumps Girth >1000mm, Disposal of material with the approval of client	nr	5.0			
	<u>Excavation</u>					
D4	The rate shall include for dewatering and providing suitable earthwork support where necessary.	note				
D5	Top soil remove and disposal of material away from site	m ²	500.0			
D6	Excavate pits/trenches depth not exceeding 1.0m depth; and backfill the excavations with approved material; remove surplus excavated material from the site. The rate shall include keeping the excavation free from water from any source, including surface water and groundwater, and providing, maintaining, and removing all necessary shoring and bracing required for the safe execution of the work.	m ²	173.3			
D7	Excavate pits/trenches depth not exceeding 2.0m depth; and backfill the excavations with approved material; remove surplus excavated material from the site. The rate shall include keeping the excavation free from water from any source, including surface water and groundwater, and providing, maintaining, and removing all necessary shoring and bracing required for the safe execution of the work.	m ³	37.1			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
D8	<u>Filling</u> All filling shall be well watered and compacted by mechanical rammer in layers not exceeding 150mm thick to achieve 95% compaction	note				
D9	Filling to make up levels with selected imported earth under floors, off site	m ³	102.3			
D10	<u>Surface treatment</u> Anti termite treatment "pipe pressure system" shall be in accordance with the manufacturers specifications by an approved specialist pest control contractor and pest control contractor shall submit a guarantee for a minimum of 10 years from the date of handing over of the project. The said guarantee certificate must be in the name of the employer. (method statement, technical literature, specimen warrantee to be submitted with the bid)	m ²	420.0			
	TOTAL FOR EXCAVATION CARRIED TO SUMMARY					

Reference Only

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	F - CONCRETE WORK					
	CONCRETE					
	<u>Ordinary, plain</u>					
	<u>Insitu mass concrete (20 N/mm²-25mm) foundation screed, poured into ground</u>					
F1	50mm thick under column footing	m ²	114.6			
F2	50mm thick under wall foundations	m ²	90.5			
	<u>Insitu mass concrete (15 N/mm²-25mm) slabs on toilet floors</u>					
F3	Ground floor level to first floor level	m ³	1.3			
F4	First floor level to second floor level	m ³	2.9			
	<u>Ordinary, reinforced</u>					
	<u>Insitu reinforced concrete (25 N/mm²-20mm) slabs on ground.</u>					
F5	Ground floor level	m ³	28.6			
	<u>Insitu reinforced concrete (30 N/mm²-20mm) foundation, poured into formwork</u>					
F6	Column footing	m ³	45.1			
F7	Column shaft upto DPC	m ³	3.4			
F8	Lift pit base & walls	m ³	9.3			
F9	Wall Foundation	m ³	3.1			
F10	Plinth beams	m ³	18.1			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Insitu reinforced concrete (30 N/mm²-20mm) columns & stiffeners columns</u>					
F11	Ground floor level to first floor level	m ³	11.8			
F12	First floor level to second floor level	m ³	12.6			
F13	Above second floor level	m ³	14.0			
	<u>Insitu reinforced concrete (30 N/mm²-20mm) beams & stiffeners beams</u>					
F14	Ground floor level to first floor level	m ³	30.5			
F15	First floor level to second floor level	m ³	30.6			
F16	Above second floor level	m ³	18.3			
	<u>Insitu reinforced concrete (30 N/mm²-20mm) slabs</u>					
F17	Ground floor level to first floor level	m ³	46.1			
F18	First floor level to second floor level	m ³	46.1			
F19	Above second floor level	m ³	9.1			
	<u>Insitu reinforced concrete (25 N/mm²-20mm) vanity/work top slabs</u>					
F20	Ground floor level to first floor level	m ³	0.2			
F21	First floor level to second floor level	m ³	1.0			
	<u>Insitu reinforced concrete (25 N/mm²-20mm) lintels</u>					
F22	Ground floor level to first floor level	m ³	2.00			
F23	First floor level to second floor level	m ³	3.00			
F24	Above second floor level	m ³	2.70			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
F25	<u>Insitu reinforced concrete (30 N/mm²-20mm) staircase.</u> Ground floor level to first floor level	m ³	3.6			
F26	First floor level to second floor level	m ³	3.6			
F27	Above second floor level	m ³	3.6			
F28	<u>Insitu reinforced concrete (25 N/mm²-20mm) sunshade</u> Ground floor level to first floor level	m ³	1.3			
F29	First floor level to second floor level	m ³	1.3			
F30	Above second floor level	m ³	4.0			
F31	FORMWORK All formwork shall be properly designed and should be sufficiently strong and rigid to have an even smooth surface to provide a finish as specified <u>Sides of foundation, basic finish</u>	note				
F32	Column footings	m ²	111.0			
F33	Column shaft upto DPC	m ²	43.5			
F34	Lift pit base & walls	m ²	32.8			
F35	Wall Foundation	m ²	2.1			
F36	Plinth beams <u>Sides of columns, stiffeners columns & stiffeners beam square or rectangular</u>	m ²	151.2			
F37	Ground floor level to first floor level	m ²	216.0			
F38	First floor level to second floor level	m ²	232.5			
F39	Above second floor level	m ²	175.5			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Sides and soffit of beams, square or rectangular, fair finish (No plastering)</u>					
F40	Ground floor level to first floor level	m ²	207.3			
F41	First floor level to second floor level	m ²	208.1			
F42	Above second floor level	m ²	157.6			
	<u>Soffit of slabs, horizontal, fair finish (No plastering)</u>					
F43	Ground floor level to first floor level	m ²	330.7			
F44	First floor level to second floor level	m ²	330.7			
F45	Above second floor level	m ²	72.5			
	<u>Sides and soffit of vanity & work tops, fair finish (No plastering)</u>					
F46	Ground floor level to first floor level	m ²	1.9			
F47	First floor level to second floor level	m ²	12.0			
	<u>Sides and soffit of lintels , square or rectangular (No plastering)</u>					
F48	Ground floor level to first floor level	m ²	28.80			
F49	First floor level to second floor level	m ²	39.60			
F50	Above second floor level	m ²	21.60			
	<u>Sides & soffit of staircase, fair finish (No plastering)</u>					
F51	Ground floor level to first floor level	m ²	25.4			
F52	First floor level to second floor level	m ²	25.4			
F53	Above second floor level	m ²	25.4			
	<u>Sides & soffit of sunshade, fair finish (No plastering)</u>					
F54	Ground floor level to first floor level	m ²	16.5			
F55	First floor level to second floor level	m ²	16.5			
F56	Above second floor level	m ²	31.7			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	REINFORCEMENT					
F57	Shall Comply with BS 4449:1197 Standard	note				
	<u>Steel reinforcement bars in foundations</u>					
F58	Column footing	kg	3,195.0			
F59	Column shaft upto DPC	kg	904.7			
F60	Lift pit base & walls	kg	715.7			
F61	Plinth beams	kg	1,339.0			
F62	Wall foundation	kg	221.2			
	<u>Steel reinforcement bars in columns & stiffeners columns</u>					
F63	Ground floor level to first floor level	kg	1,496.8			
F64	First floor level to second floor level	kg	1,584.6			
F65	Above second floor level	kg	2,058.0			
	<u>Steel reinforcement bars in beams & stiffeners beams</u>					
F66	Ground floor level to first floor level	kg	5,716.9			
F67	First floor level to second floor level	kg	5,716.9			
F68	Above second floor level	kg	3,860.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Steel reinforcement bars in suspended slabs</u>					
F1	Ground floor level to first floor level	kg	4,429.3			
F2	First floor level to second floor level	kg	4,429.3			
F3	Above second floor level	kg	910.0			
	<u>Steel reinforcement bars in vanity/work top slabs</u>					
F4	Ground floor level to first floor level	kg	12.2			
F5	First floor level to second floor level	kg	134.2			
	<u>Steel reinforcement bars in lintels</u>					
F6	Ground floor level to first floor level	kg	200.0			
F7	First floor level to second floor level	kg	300.0			
F8	Above second floor level	kg	270.0			
	<u>Steel reinforcement bars in staircase</u>					
F9	Ground floor level to first floor level	kg	330.0			
F10	First floor level to second floor level	kg	330.0			
F11	Above second floor level	kg	330.0			
	<u>Steel reinforcement bars in sunshade</u>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	G - MASONRY WORK					
	RUBBLE WORK					
	<u>Random rubble work set in cement and sand mortar 1:5</u>					
G1	Strip foundation	m ³	5.0			
G2	Wall foundation	m ³	46.5			
	BRICK WORK					
	<u>Brick work 225mm thick set in 1:5 cement and sand mortar on the following</u>					
G3	Ground floor level to first floor level	m ²	178.20			
G4	First floor level to second floor level	m ²	202.80			
G5	Above second floor level	m ²	71.40			
	<u>112.5mm thick brick work set in 1:5 cement and sand mortar on the following</u>					
G6	Ground floor level to first floor level	m ²	71.50			
G7	First floor level to second floor level	m ²	35.00			
	<u>225mm thick wire cut brick work set in 1:5 cement and sand mortar on the following</u>					
G8	Boundary wall	m ²	29.30			
	<u>112.5mm thick wire cut brick wall set in 1:5 cement and sand mortar on the following</u>					
G9	Ground floor level to first floor level	m ²	14.4			
G10	First floor level to second floor level	m ²	54.70			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	BLOCK WORK					
	<u>Block work 200mm thick set in 1:5 cement and sand mortar on the following</u>					
G11	Ground floor level to first floor level	m ²	54.80			
G12	First floor level to second floor level	m ²	124.00			
	<u>100mm thick block work set in 1:5 cement and sand mortar on the following</u>					
G13	Ground floor level to first floor level	m ²	178.80			
G14	First floor level to second floor level	m ²	143.00			
G15	Above second floor level	m ²	317.9			
	<u>200mm thick terra cota hollow block work set in 1:5 cement and sand mortar on the following</u>					
G16	First floor level to second floor level	m ²	34.4			
	TOTAL FOR MASONRY WORK CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	H - WATER PROOFING					
	ASPHALT WORKS					
H1	Damp proof course out of 3/4" thick 1:2 cement mortar finished with two coats of hot bitumen.	m ²	59.8			
H2	Damp proof membrane under floor slab out of 1000 gauge polythene. Rate shall include for all laps & turning 6" at ends etc.	m ²	340.6			
	WATER PROOFING					
H3	Contractor for water proofing is required to furnish a guarantee for a period of ten (10) years from the date of handing over of the works. The tenderer must give a written undertaking to furnish the said guarantee in the form required by the employer.	note				
H4	Rates for water proofing shall include for cement and sand plaster to receive water proofing if required as per manufacturer's specifications <u>Prepare surface & apply cementitious waterproofing system by an approved specialist sub contractor and waterproofing application strictly in accordance with the manufacturers specifications.</u>	note				
H5	Toilet floor in ground floor.	m ²	20.3			
H6	Toilet floor in first floor.	m ²	18.2			
H7	Toilet wall in ground floor.	m ²	162.1			
H8	Toilet wall in first floor.	m ²	146.1			
	<u>To sunshade including 25mm thick cement sand protective screed</u>					
H9	Ground floor to first floor level	m ²	16.5			
H10	First floor level to second floor level	m ²	16.5			
H11	Above second floor level	m ²	53.5			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>To Balconies</u>					
H12	First floor level to second floor level	m ²	48.0			
	<u>Slabs</u>					
	<u>Apply one coats of Primer and lay water proofing membrane on primer coat as per the detail drawing</u>					
H13	Exposed slab at above second floor	m2	45.7			
H14	Machine room roof slab	m2	7.9			
H15	Water tank floor	m2	20.8			
	<u>Protective screed 20mm average thick with 1:3 cement sand all complete as per drawing</u>					
H16	Exposed slab at above second floor	m2	45.7			
H17	Machine room roof slab	m2	7.9			
H18	Water tank floor	m2	20.8			
	<u>50mm thick Thermal Insulation on protective screed as per the drawing</u>					
H19	Exposed slab at above second floor	m2	45.7			
H20	Machine room roof slab	m2	7.9			
H21	Water tank floor	m2	20.8			
	<u>1000 guage polythene layer</u>					
H22	Exposed slab at above second floor	m2	45.7			
H23	Machine room roof slab	m2	7.9			
H24	Water tank floor	m2	20.8			
	<u>40-50mm thick Grade 20 concrete layer with 2"x2" GI mesh on top,</u>					
H25	Exposed slab at above second floor	m2	45.7			
H26	Machine room roof slab	m2	7.9			
H27	Water tank floor	m2	20.8			
	TOTAL FOR WATERPROOFING					
	CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	J - STRUCTURAL METAL WORK					
J1	Structural steel should be of grade 43,, steel bolts to be grade 8.4, according to BS 5950 and electrode strength 43 should be 215N/mm2.	note				
J2	Rate shall include for all plates, anchor bolts, nuts, washers, cleats, tie/sag rods, and welding to plates, hoisting & fixing in position.	note				
J3	Rate shall include to apply corrosive category of the paint shall be class - C5 (MARINE TYPE) According to EN-ISO 12944-5:1998	note				
J4	All structural metal work should be according to drawing and given specification. BEAM <u>Supplying fabricating and fixing of 350mmx175mmx49kg/m steel "I" section for roof including gusset plates, sole plates, base plates, cleats. Rate shall include nut & bolts.</u>	note				
J5	In roof level ROOF STRUCTURE <u>Supplying and fixing of galvanized 150mm x 50mm x 3mm rectangular hollow purlins with all necessary accessories.</u>	kg	931.00			
J6	In roof level <u>Supplying and fixing of galvanized 50mm x 25mm x 2mm rectangular hollow purlins with all necessary accessories.</u>	m	528.80			
J7	In roof level	m	405.60			
	TOTAL FOR STRUCTURAL METAL WORK CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	K-METAL WORKS					
	ALUMINIUM WORKS					
K1	The Contractor shall submit to the Consultant the shop drawings and specifications for approval.	note				
K2	All Aluminum extrusions shall be 60-80 micron powder coated, door & window frame sectional sizes are as per drawing, minimum thickness shall be 1.5 mm.	note				
K3	The rates for doors and windows shall be deemed to include the supply and installation of all necessary ironmongery, locks, handles, hinges, sliding gear, door closers and all other accessories of approved quality, complete in all respects. Samples, catalogues, and manufacturer's specifications of all ironmongery and accessories shall be submitted to the Consultant for approval prior to procurement and installation.	note				
K4	Rate to include tempered glass whenever necessary as per the drawing	note				
K5	Door type D1, 750 x 2450mm high overall with powder coated aluminium framed aluminium glazed panel door with fixed glass on top all completed as per drawing.	nr	1.00			
K6	Door type D12, 600 x 1800mm high overall with powder coated aluminium framed cladding duct door all completed as per drawing.	nr	4.00			
K7	Door type GD1, 1475 x 1500mm high overall with powder coated aluminium framed aluminium glazed door all completed as per drawing.	nr	1.00			
K8	Door type SD1, 1500 x 2450mm high overall with powder coated aluminium framed aluminium glazed sliding door with fixed glass on top all completed as per drawing.	nr	3.00			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
K9	Door type SD2, 2250 x 2450mm high overall with powder coated aluminium framed aluminium glazed sliding door with fixed glass on top all completed as per drawing.	nr	3.00			
K10	Door type SD3, 3000 x 2450mm high overall with powder coated aluminium framed aluminium glazed sliding door with fixed glass on top and sides all completed as per drawing.	nr	6.00			
K11	Window type W1, 2700 x 1500 mm high overall with aluminium framed aluminium glazed window with fixed glass on top and middle all complete as per drawing.	nr	1.00			
K12	Window type W2, 2250 x 1500 mm high overall with aluminium framed aluminium glazed window fixed glass on top all complete as per drawing.	nr	1.00			
K13	Window type W3, 1500 x 1500 mm high overall with aluminium framed aluminium glazed window fixed glass on top all complete as per drawing.	nr	3.00			
K14	Window type W4, 1050 x 1500 mm high overall with aluminium framed aluminium glazed window fixed louver on top and fixed glass on bottom all complete as per drawing.	nr	2.00			
K15	Window type W6, 4475 x 1500 mm high overall with aluminium framed aluminium glazed fixed window all complete as per drawing.	nr	1.00			
K16	Window type F1, 600x 1300 mm high overall with aluminium framed aluminium glazed fanlight with fixed louver on top and fixed glass on bottom all complete as per drawing.	nr	11.00			
K17	Window type FG1, 2400 x 1500 mm high overall with aluminium framed aluminium glazed windows with fixed glasses all complete as per drawing.	nr	1.00			
K18	Window type FG2, 2400 x 3300 mm high overall with aluminium framed aluminium glazed window with fixed glasses all complete as per drawing.	nr	1.00			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
K19	Window type GP1, 4125 x 3450 mm tempered glass panel all complete as per drawing.	nr	1.00			
K20	Window type GP2, 1475 x 3300 mm tempered glass panel all complete as per drawing.	nr	1.00			
	<u>Glass partition</u>					
K21	10mm thk Glass partition in toilet including stainless steel fixing material all complete as per the detail drawing.	m ²	19.0			
	<u>Glass work</u>					
K22	8mm thk tempered glass in reception table top all complete as per the detail drawing.	m ²	1.2			
	<u>Roller door</u>					
K23	Door type RD1, 8385x3400mm high overall automatic Roller door all complete as per drawing	nr	1.00			
	STEEL/GI WORKS					
K24	All steel work should be applied two coats of primer and apply two coats of marine paint approved colour including welding joint.	note				
	<u>Grill door/window</u>					
K25	Door type G1, 3650 x 2400 mm high overall with steel framed grill gate all complete as per drawing.	nr	1.0			
K26	Door type G2, 9670 x 3800 mm high overall with steel framed steel grill all complete as per drawing.	nr	1.0			
K27	Door type G3, 1475 x 1500 mm high overall with steel framed steel grill gate all complete as per drawing.	nr	1.0			
K28	Door type G4, 1475 x 3300 mm high overall with steel framed steel fixed grill panel all complete as per drawing.	nr	1.0			
K29	Door type G5, 780 x 2400 mm high overall with steel framed steel wicket gate all complete as per drawing.	nr	1.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Handrail</u>					
	<u>Staircase handrail with 37.5mm GI tube and 15mm dia GI tube and 8mm dia Iron rod with 60mm dia. Circular plate all complete as per drawing.</u>					
K30	Ground floor level to first floor level	m	8.0			
K31	First floor level to second floor level	m	9.0			
	<u>Garden hand rail with 37.5mm GI tube and 15mm dia GI tube and 8mm dia Iron rod with 60mm dia. Circular plate all complete as per drawing.</u>					
K32	Ground floor level to first floor level	m	9.5			
	<u>Wall mounted hand rail with 37.5mm GI tube and 15mm dia GI rod all complete as per drawing.</u>					
K33	Ground floor level to first floor level	m	15.5			
K34	First floor level to second floor level	m	18.0			
	TOTAL FOR METAL WORKS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	L- WOOD WORK					
L1	All timber for wood works should be vacuum pressurized impregnation with CCB wood preservative treatment.	note				
L2	All treated timber should be 'Kiln Seasoned'.	note				
L3	Rate for wood works shall include for application 2-3 coat of water based interior clear top coat, (matt finish) .	note				
L4	The rates for doors and windows shall be deemed to include the supply and installation of all necessary ironmongery, locks, handles, hinges, sliding gear, door closers and all other accessories of approved quality, complete in all respects. Samples, catalogues, and manufacturer's specifications of all ironmongery and accessories shall be submitted to the Consultant for approval prior to procurement and installation.	note				
L5	Rate to include tempered glass whenever necessary as per the drawing	note				
	DOORS & WINDOWS					
L6	All doors & window frames & sashes are to be "Teak" or similar approved. All sizes shown to be finished sizes.	note				
L7	Door type D2, 1200 x 2450mm high overall with timber framed fire rated timber door with fixed glass on top all completed as per drawing.	nr	4.00			
L8	Door type D3, 900 x 2450mm high overall with timber framed solid timber door with fixed glass on top, all completed as per drawing.	nr	3.00			
L9	Door type D4, 750 x 2450mm high overall with timber framed solid timber door with fixed glass on top all completed as per drawing.	nr	10.00			
L10	Door type D5, 1000 x 2450mm high overall with timber framed solid timber door with fixed louver on top all completed as per drawing.	nr	3.00			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	N-PARTITIONS & CEILING					
	CEMENT BOARD CEILING					
N1	Board for ceiling, joints shall be taped with recommended joint tape, joints and surface will be skim coated with acrylic filler to get even surface and prepared surface finished with one coat of primer and two coats of emulsion paint - colour to approval. Rate shall include for necessary cuttings/ openings to accommodate light fittings, inspection panels etc. <u>Flat ceiling</u> <u>Gypsum board ceiling 9mm thick fixed to necessary steel frame work all completed as per the drawings.</u>	note				
N2	Ground floor level to first floor level	m ²	20.20			
N3	First floor level to second floor level	m ²	19.00			
	PARTITIONS					
N4	<u>Glass partition with 10mm thick tempered glass with sand blasting up to ceiling with powder coated Aluminium frame work rate to include doors all complete as per drawing.</u> <u>Partition up to 2450mm from F.F.L</u>	note				
N5	Ground floor level to first floor level <u>Partition up to slab</u>	m ²	47.20			
N6	Ground floor level to first floor level	m ²	46.00			
N7	First floor level to second floor level	m ²	186.10			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Toilet Partition</u>					
N8	<u>Toilet partition with 12mm thick High impact laminated board rate to include door all complete as per drawing.</u>	note				
N9	First floor level to second floor level	m ²	9.00			
TOTAL FOR PATITION & CEILING CARRIED TO SUMMARY						

Reference Only

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	P - ROOF COVERING AND ROOF PLUMBING					
	<u>Roof Covering</u>					
P1	Supplying and fixing of 0.47mm thick, Zn/Al alloy coated colour bonded metal panel with 10mm thick double sided fire retardant aluminium foil with (50x50) GI welded mesh - (18)G on steel roof trusses with necessary fasteners and other fixing arrangements as per the detail drawings.	m ²	362.5			
P2	Supply and fixing Zn/Al Colour bonded 0.47 mm thick 300 mm girth Valance/ barge board with angle iron frame all complete as per detail drawing.	m	58.00			
P3	Supply and fixing Zn/Al Colour bonded 0.47 mm thick flashing board all complete as per detail drawing.	m	12.00			
	<u>Roof Plumbing</u>					
P4	Eaves gutter- Supply and fixing Zn/Al Colour bonded 0.47 mm thick 457mm girth Gutter consist of internal bracket , reverts etc. all complete as per drawing.	m	29.00			
P5	Down pipe- Supply and fixing Zn/Al Colour bonded 0.47 mm thick 457 mm girth down pipe consist of external bracket , reverts etc. all complete as per drawing.	m	80.00			
	TOTAL FOR ROOF COVERING AND ROOF PLUMBING WORK CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	Q - PLUMBING AND SANITARY INSTALLATION					
	COLD WATER SUPPLY SYSTEM					
Q1	Rate for all pipes shall include for necessary bends, tees, reducers and stop ends, etc., excavation, backfilling as required.	note				
Q2	All gate valves, stop valves, and non-return valves shall be heavy-duty screw-type valves conforming to the relevant applicable Sri Lanka Standards (SLS) or other internationally recognized standards. The valves shall be of an approved equivalent make and shall be subject to the approval of the Engineer prior to installation	note				
Q3	Cold water supply pipe system uPVC T1000 (PNt 11) as per drawings laid through ducts, buried underground and chased into walls as indicated with pipe specials including pipe brackets, supports, hangers, pipe racks/trays etc.	note				
Q4	Permanent water connection will be provided by the Employer <u>Water Connection.</u>	note				
Q5	25mm (3/4") dia. PVC pipes from tube well to overhead tank.	m	62.0			
Q6	20mm (1/2") dia. PVC pipes from meter to sump.	m	28.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Distribution from sump to overhead tank.</u>					
Q7	Ball valve	nr	2.0			
Q8	Floating switch	nr	3.0			
Q9	Electrically operated pressure pump 1350lgph, 50ft , with necessary float control devices and electrical control accessories fully automatic operation as per specification.	nr	2.0			
Q10	32mm dia Brass Gate valves	nr	2.0			
Q11	32mm dia. Brass Non return valves	nr	2.0			
Q12	32mm dia. Flexible Coupling for pump arrangement	nr	2.0			
Q13	32mm (1") dia PVC pumping main from the pump (including pump arrangement) to overhead tank.	m	20.0			
Q14	50mm (1-1/2 ") dia PVC pumping main from the pump (including pump arrangement) to overhead tank.	m	13.0			
Q15	220 Gallons.(1000l) best quality Polyethylene water tank brand "Anton Dolphin, Slon P+, Arpico plasticell" or approved equivalent completed as per drawing.	nr	4.0			
Q16	110 Gallons.(500l) best quality Polyethylene water tank brand "Anton Dolphin, Slon P+, Arpico plasticell" or approved equivalent completed as per drawing	nr	4.0			
Q17	50mm (1-1/2 ")dia. PVC washout & overflow pipes from overhead tank.	m	27.0			
Q18	50mm (1-1/2 ")dia. PVC washout & overflow pipes from sump tanks.	m	7.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Internal distribution system</u>					
	<u>Cold water distribution pipe system PVC T1000 as per drawings laid through ducts, buried and chased into walls as indicated from the storage tank with pipe specials including pipe brackets, supports, hangers, pipe racks/trays etc.</u>					
Q19	20mm (1/2") dia. PVC pipes	m	50.0			
Q20	25mm (3/4") dia. PVC pipes	m	31.0			
Q21	32mm (1") dia. PVC pipes	m	25.0			
Q22	40mm (1-1/4 ") dia PVC pipes	m	23.0			
Q23	50mm (1-1/2 ") dia PVC pipes	m	20.0			
	<u>Approved quality brass stop/gate valves as indicated below.</u>					
Q24	50mm 1-1/2" dia. gate valve	nr	13.0			
Q25	32mm 1" dia. gate valve	nr	3.0			
Q26	25mm 3/4" dia. gate valve	nr	6.0			
Q27	20mm 1/2" dia. gate valve	nr	7.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	HOT WATER SUPPLY SYSTEM <u>Hot water distribution pipe system Polypropylene pipes under ground or buried and chased into walls as indicated with pipe specials including pipe brackets, supports, hangers, pipe racks/trays etc.</u>					
Q28	15mm dia. pipes	m	33.0			
Q29	20mm dia. pipes	m	19.0			
Q30	25mm dia. pipes <u>Pegler or approved quality brass stop/gate valves as indicated below.</u>	m	17.0			
Q31	25mm dia. gate valve	nr	1.0			
Q32	20mm dia. gate valve	nr	1.0			
Q33	15mm dia. gate valve <u>Sanitary fittings</u>	nr	1.0			
Q34	The selected bidder shall submit the detailed rate breakdown of prime cost items within two weeks from the award of the contract.	note				
Q35	Low level water closet- Type 01 white colour complete with 'S' or 'P' traps, low level cistern, WC connector, flush pipe, seat cover, angle valves, flexible connector and inclusive of all accessories to working order. (P.C rate of WC without valves Rs 65,625.00)	nr	8.0			
Q36	Low level water closet - Type 02 white colour complete with 'S' or 'P' traps, low level cistern, WC connector, flush pipe, seat cover, angle valves, flexible connector and inclusive of all accessories to working order. (P.C rate of WC without valves Rs 83,125.00)	nr	4.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
Q37	Pedestal wash basin - Type 01 white colour complete with trap cover, brass chromium plated bottle trap, angle valve, flexible hose, basin mixer and inclusive of all accessories to working order. (P.C rate of wash basin without basin mixture, valves Rs 21,056.00 & Basin mixer Rs 26,000.00)	nr	4.0			
Q38	Vanity wash basin - Type 01 white colour complete with trap cover, brass chromium plated bottle trap, angle valve, flexible hose, basin mixer and inclusive of all accessories to working order. (P.C rate of wash basin without basin mixture, valves Rs 26,250.00 & Basin mixer Rs 26,000.00)	nr	4.0			
Q39	Pedestal wash basin - Type 02 white colour with trap cover, brass chromium plated bottle trap, angle valve, flexible hose, basin mixer and inclusive of all accessories to working order. (P.C rate of wash basin without basin mixture, valves Rs 25,418.00 & Basin mixer Rs 26,000.00)	nr	4.0			
Q40	Wash basin - Type 03 white colour with trap cover, brass chromium plated bottle trap, angle valve, flexible hose, basin mixer and inclusive of all accessories to working order. (P.C rate of wash basin without basin mixture, valves Rs 38,685.00 & Basin mixer Rs 10,500.00)	nr	6.0			
Q41	Lab sink white colour with tap, trap cover, brass chromium plated bottle trap, angle valve, flexible hose and inclusive of all accessories to working order. (P.C rate of wash basin without taps, valves Rs 35,914.00 & chromium plated tap Rs 25,037.00)	nr	2.0			
Q42	Kitchen sink double bowl double drain, with 1/2" dia chromium sink tap, bottle trap, waste and rubber plug water supply and waste water connection and inclusive of all accessories to working order. (P.C rate of kitchen sink without taps, valves Rs 55,00.00 & Sink tap Rs 25,037.00)	nr	2.0			
Q43	Bidet shower fixed on complete with all connection to working order. (P.C rate of a bidet shower Rs 3,181.00)	nr	11.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
Q44	Shower with concealed bath mixer, hand shower & spout - Type 01 (P.C rate of a shower with concealed bath mixer, hand shower & spout is Rs 59,500.00 without valve)	nr	4.0			
Q45	Shower with concealed bath mixer & spout - Type 02 (P.C rate of a shower with concealed bath mixer & spout is Rs 55,000.00 without valve)	nr	1.0			
Q46	Chromium plated garden tap 1/2" dia	nr	2.0			
Q47	Chromium plated washing machine tap 1/2" dia	nr	2.0			
	<u>Accessories</u>					
Q48	All accessories shall be new, of the best quality, and shall conform to the relevant applicable standards. Samples, catalogues, or technical data, as required, shall be submitted to the Engineer for approval prior to procurement and installation.	note				
Q49	Glass shelves (P.C. rate per glass shelf is Rs. 6000.00)	nr	5.0			
Q50	Toilet paper holder (P.C. rate per toilet paper holder is Rs. 7594.00)	nr	12.0			
Q51	Soap dish holder (P.C. rate per Soap dish holder is Rs. 5747.00)	nr	12.0			
Q52	Robe hook (P.C. rate per Robe hook is Rs.4823.00)	nr	12.0			
Q53	Towel Rail (P.C. rate per Towel Rail is Rs.14,058.00)	nr	5.0			
Q54	Tooth brush holder (P.C. rate per tooth brush holder is Rs.5952.00)	nr	5.0			
Q55	Folding bar for Disable toilet (P.C. rate per folding bar is Rs.38889.00)	nr	1.0			
Q56	Grab bar 600mm long, for Disable toilet (P.C. rate per grab bar is Rs.8722.00)	nr	1.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
Q57	<u>Mirror</u> Mirror 600mm x 915mm size - type 01 above pedestal wash basins all complete as per drawing (P.C rate of the mirror is Rs 18,000.00)	nr	10.0			
Q58	Mirror 1525mm x960mm size - type 02 above vanity/wash basins all complete as per drawing (P.C rate of the mirror is Rs 18,000.00)	nr	1.0			
Q59	<u>Inspection and Testing</u> Testing pipe network after commissioning in accordance with specification.	Item				
TOTAL FOR PLUMBING & SANITARY INSTALLATION CARRIED TO SUMMARY						

Reference Only

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	S- ELECTRICAL INSTALLATION					
S60	All materials, equipment's, wiring and workmanship shall confirm to local codes of specifications, B.S Standards, latest I.E.E regulations and Ceylon Electricity Board specifications.	note				
S61	Supply and installation of 600/1000V, SWA, XLPE insulated, PVC sheathed or PVC insulated, PVC sheathed, copper conductor power cables.	note				
S62	Rate to include for supply and installation of crimping type cable lugs for both ends of the cable and termination and other accessories but excluding cable hanging system (cable ladder and cable trays). Cable hanging system is included in separate BOQ item. Rate shall be linear length of individual 4-c or 1-c cable.	note				
S63	The Bidder shall submit a detailed rate breakdown for all 'Rate Only' items together with the Bid	note				
S64	Permenet electrical connection will be provided by the Employer	note				
	<u>Cables</u>					
S65	All cables shall be 'ACL/KELANI' or approved equivalent.	note				
S66	Supply and installation of 4C, 150 mm ² Cu/XLPE/PVC/SWA Cable from Transformer to DB-ATS through underground cable trench	m	12.0			
S67	Supply and installation of 4C, 150 mm ² Cu/XLPE/PVC + 70 mm ² Cu/PCV (E) Cable from DB-ATS to MDB through cable tray	m	20.0			
S68	Supply and installation of 4C, 35 mm ² Cu/XLPE/PVC + 35 mm ² Cu/PCV (E) Cable from MDB to FDB-1 cable through tray and Ladder	m	6.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
S69	Supply and installation of 4C, 16 mm ² Cu/XLPE/PVC + 16 mm ² Cu/PCV (E) Cable from MDB to FDB-G through tray	m	2.0			
S70	Supply and installation of 4C, 10 mm ² Cu/XLPE/PVC + 10 mm ² Cu/PCV (E) Cable from FDB-G to CUG-1, FDB-G to CUG-2, FDB-1 to CU1-1, FDB-1 to CU1-2 through tray and Ladder	m	37.0			
S71	Supply and installation of 2C, 10 mm ² Cu/XLPE/PVC + 10 mm ² Cu/PCV (E) Cable from FDB-1 to Cu1-3, FDB-1 to Cu1-4, FDB-1 to Cu1-5, FDB-1 to Cu1-6, trough tray	m	65.0			
	<u>Distribution Boards.</u>					
S72	MCCB, MCBS, RCDC, Surge arresters shall be ABB, Merlin gerin, Hager, F&G or approved equivalent.	note				
	<u>Wall mounted recessed type distribution board complete with powder coated 1.5mm thick sheet steel enclosure with lockable doors all complete as per drawings</u>					
S73	Main Distribution Board consisting of ELCB, MCBs, main switch, etc. all complete to working order. <u>Distribution Boards consisting of ELCB, MCBs, main switch, etc. all complete to working order in suitable enclosure all complete as per drawings</u>	nr	1.0			
S74	DB - ATS in ground floor	nr	1.0			
S75	FDB - G in ground floor	nr	1.0			
S76	CUG - 1 in ground floor	nr	1.0			
S77	CUG - 2 in ground floor	nr	1.0			
S78	FDB - 1 in first floor	nr	1.0			
S79	CU1 - 1 in first floor	nr	1.0			
S80	CU1 - 2 in first floor	nr	1.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
S81	CU1 - 3 in first floor	nr	1.0			
S82	CU1 - 4 in first floor	nr	1.0			
S83	CU1 - 5 in first floor	nr	1.0			
S84	CU1 - 6 in first floor <u>Wiring for light points, ceiling fans, socket outlets</u>	nr	1.0			
S85	Rate for point wiring shall include for all the conduits, conduit fittings, casings, fixing material, switches, wiring and terminations, holders for light fittings.	note				
S86	Switches and socket outlets to be 'Orange, Clipsal' or approved equivalent	note				
S87	Point wiring for 13A Socket outlet and 2 Pole Switch (For A/C Unit)	nr	17.0			
S88	Point wiring for 13A Socket outlet and 2 Pole Switch (For Geezer)	nr	4.0			
S89	Point wiring for 13A Socket outlet	nr	199.0			
S90	Point wiring for lamp points one way	nr	195.0			
S91	Extra over for point wiring for lamp points two way	nr	16.00			
S92	Point wiring for ceiling fan	nr	4.0			
S93	Point wiring for wall fan	nr	5.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
S94	<u>Light fittings & fans</u> The selected bidder shall submit the detailed rate breakdown of prime cost items within two weeks from the award of the contract.	note				
S95	Each light fitting shall include bulbs, internal wiring, hanging and fixing material and be complete to working order	note				
S96	20W LED soffit mounted light fittings - type 1 (prime cost per lamp fittings Rs 5,000/=)	nr	70.0			
S97	20W LED soffit mounted light fittings - type 2 (prime cost per lamp fittings Rs 5,000/=)	nr	6.0			
S98	20W LED soffit mounted light fittings (prime cost per lamp fittings Rs 5,000/=)	nr	9.0			
S99	8W LED soffit mounted light fittings (prime cost per lamp fittings Rs 3,000/=)	nr	31.0			
S100	8W LED ceiling mounted light fittings - type 1 (prime cost per lamp fittings Rs 3,000/=)	nr	14.0			
S101	8W LED soffit mounted light fittings - type 2 (prime cost per lamp fittings Rs 3,000/=)	nr	8.0			
S102	8W LED soffit mounted light fittings - type 3 (prime cost per lamp fittings Rs 3,000/=)	nr	4.0			
S103	Mirror light (prime cost per lamp fittings Rs 3,000/=)	nr	11.0			
S104	8W Indoor up down wall lamp - type 1 (prime cost per lamp fitting Rs1,600/=)	nr	8.0			
S105	5W indoor wall lamp - type 1 (prime cost per lamp fittings Rs 1,300/=)	nr	8.0			
S106	5W indoor wall lamp - type 2 (prime cost per lamp fittings Rs 1,300/=)	nr	6.0			
S107	20W Outdoor up down wall lamp - type 1 (IP68) (prime cost per lamp fittings Rs 1,600/=)	nr	6.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
S108	20W Outdoor up down wall lamp - type 2 (IP68) (prime cost per lamp fittings Rs 1,600/=)	nr	11.0			
S109	Nitch light (prime cost per lamp fittings Rs 1,650/=)	nr	3.0			
S110	Celling fan (prime cost per ceiling fan Rs 27,500/=)	nr	4.0			
S111	Wall fan (prime cost per wall fan Rs 15,950/=)	nr	5.0			
	<u>Main earthling system</u>					
S112	16mm dia. Solid copper main earth electrode of length 1.2m or more driven in to earth. Earth resistance shall be less than 10 ohms tested in a dry day. An earth pit of size 300mm(L) x 300mm(W) x 200mm (D) shall be prepared and covered with a removable cover plate to protect the electrode.	Item				
	<u>Telephone system</u>					
S113	Supply and Installation of 1" PVC electrical conduits and necessary conduit fittings including sunk boxes at the telephone outlet location. Conduits shall be buried in concrete slab/block wall/partition wall as per the layout drawings. This is a conduit only item and necessary provisions shall be kept to install the telephone cables later as per the layout drawing.	nr	14.0			
S114	Wiring of two pair indoor telephone wires (0.5mm diameter) from TJB to all extension lines, enclosed in PVC conduit, buried in wall / clipped to roof trusses / laid inside the partition walls with standard accessories including RJ 11 type Telephone Wall Socket Outlets	nr			Rate Only	

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Data Network System</u>					
S115	Supply and Installation of 1" PVC electrical conduits and necessary conduit fittings including sunk boxes at the data outlet location. Conduits shall be burried in concrete slab/block wall/partition walls as per the layout drawings. This is a conduit only item and necessary provisions shall be kept to install the network cables (CAT6) later as per the layout drawing.	nr	14.0			
S116	Wiring of Cat6 UTP cable, from patch panel to each data point , enclosed in PVC conduit, buried in wall / clipped to roof trusses / laid inside the partition walls with standard accessories including Data outlets (wall mounted, Sunk type, single)	nr			Rate Only	
	<u>GI GRID</u>					
S117	Supply and install GI cable tray fixed to the concrete slab, including all necessary supports, brackets, anchor fasteners, cable fixing accessories all as per the given design	nr				
S118	300mm x 100mm cable tray	m	53.0			
S119	400mm x 100mm cable ladder	m	7.0			
	<u>Inspection and Testing</u>					
S120	Testing and commissioning of the system, the total electrical installation and submit a test certificate issued by a chartered engineer including detail test report acceptable to the supply authority	Item				
	TOTAL FOR ELECTRICAL INSTALLATION					
	CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	T-FLOOR WALL AND CEILING FINISHES					
T1	The selected bidder shall submit the detailed rate breakdown of prime cost items within two weeks from the award of the contract.	note				
	FLOOR FINISHES					
	<u>External area</u>					
	<u>100x100x80mm(30N/mm²) Cement interlocking paving including 50mm thick quarry dust base. Rate to include ground preparation work and compaction in pavement area.</u>					
T2	Ground floor	m ²	27.20			
	<u>Internal area</u>					
	<u>Type 01: 600x600mm Non Slip homogeneous floor tiles approved colour laid with recommended adhesive including 1:3 cement and sand bedding & pointing with grout/neat cement in following floors. (Cost per tile Rs. 3144/=)</u>					
T3	Ground floor	m ²	41.80			
T4	First floor	m ²	62.70			
	<u>Type 02: 600x600mm Non Slip homogeneous floor tiles approved colour laid with recommended adhesive including 1:3 cement and sand bedding & pointing with grout/neat cement in following floors. (Cost per tile Rs. 3144/=)</u>					
T5	First floor	m ²	79.90			
	<u>Type 03: 600x600mm Non Slip homogeneous floor tiles approved colour laid with recommended adhesive including 1:3 cement and sand bedding & pointing with grout/neat cement in following floors. (Cost per tile Rs. 3144/=)</u>					
T6	Ground floor	m ²	165.50			
T7	First floor	m ²	155.40			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
T8	Ground floor	m ²	33.80			
T9	First floor	m ²	40.00			
T10	Ground floor	m ²	20.30			
T11	First floor SKIRTING	m ²	14.20			
T12	Ground floor	m	143.00			
T13	First floor	m	185.00			
T14	Ground floor	m	24.00			
T15	First floor	m	30.00			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>STAIRCASE</u>					
	<u>25mm thick 1:2 cement and sand rendering finished smooth with grey cement floating with titanium dioxide including expansion joints. Surface to be cut to smooth using "Terrazzo cutter" & applied two coats of clear wax, to give uniform colour and leveled finish.</u>					
T16	Ground floor to first floor	m ²	25.30			
T17	First floor to second floor	m ²	14.60			
	<u>SKIRTING</u>					
	<u>25mm thick 1:2 cement and sand rendering finished smooth with grey cement floating with titanium dioxide including expansion joints. Surface to be cut to smooth applied two coats of clear wax, to give uniform colour and leveled finish.</u>					
T18	Ground floor to first floor	m	2.00			
T19	First floor to second floor	m	2.00			
	<u>VANITY, WORKTOPS & BAY WINDOW SLABS</u>					
	<u>Granite tiles pantry top approved colour laid with recommended adhesive including 1:3 cement and sand bedding & pointing with grout/neat cement in following floors. (Cost per tile sqft Rs. 1800/-)</u>					
T20	Ground floor	m ²	1.00			
T21	First floor	m ²	10.00			
	<u>POWER TROWEL FINISH</u>					
	<u>Power trowel finish on concrete slab surface with floor hardener including maintaining required slop in the following rate shall be included for chip concrete layer on power trowelling and forming expansion joints (25mm thick G.20 chip concrete)</u>					
T22	In car park area	m ²	70.50			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	WALL FINISHES INTERNAL WALLS					
	<u>16mm thick plaster in 1:5 cement and sand finished semi-rough to internal walls and columns & beams attached to walls</u>					
T23	Ground floor to first floor	m ²	773.70			
T24	First floor to second floor level	m ²	805.30			
	<u>Type 02: 300x600mm homogeneous glazed wall tiles bathroom wall approved colour laid with recommended adhesive including 1:3 cement and sand bedding & pointing with grout/neat cement in following floors. (Cost per tile is Rs. 1130/=)</u>					
T25	Ground floor to first floor	m ²	283.70			
T26	First floor to second floor level	m ²	250.10			
	<u>Type 03: 300x600mm homogeneous glazed wall tiles LAB wall approved colour laid with recommended adhesive including 1:3 cement and sand bedding & pointing with grout/neat cement in following floors. (Cost per tile is Rs. 1130/=)</u>					
T27	First floor to second floor level	m ²	49.40			
	<u>15mm thick internal plaster, width not exceeding 300mm in cement and sand 1:5 finished semi rough to the following door & window reveals</u>					
T28	Ground floor to first floor	m	259.00			
T29	First floor to second floor level	m	280.00			
	<u>Tile reveals, width not exceeding 300mm laid with recommended adhesive including 1:3 bedding in following door & window reveals</u>					
T30	Ground floor to first floor	m	26.00			
T31	First floor to second floor level	m	11.00			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	EXTERNAL WALLS					
	<u>15mm thick external plaster in 1:5 cement and sand finished semi-rough to external walls and columns & beams attached to walls</u>					
T32	Ground floor to first floor	m ²	178.20			
T33	First floor to second floor level	m ²	189.50			
T34	Above second floor level	m ²	635.8			
	<u>15mm thick external plaster, width not exceeding 300mm in cement and sand 1:5 finished semi rough to the following door & window reveals</u>					
T35	Ground floor to first floor	m	84.00			
T36	First floor to second floor level	m	98.00			
	<u>25mm thick 1:2 cement and sand rendering finished smooth with grey cement floating with titanium dioxide including expansion joints. Surface to be cut to smooth & applied two coats of clear wax, to give uniform colour and leveled finish.</u>					
T37	Ground floor to first floor	m ²	53.30			
T38	First floor to second floor level	m ²	27.40			
	PLINTH					
T39	12.5mm thick plaster in 1:5 cement and sand finished semi-rough to plinth.	m ²	52.0			
	TOTAL FOR FLOOR WALL AND CEILING FINISHES					
	CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	V - PAINTING					
V1	All paints shall be of approved quality and manufactured by "Aksonobel-Dulux" or approved equivalent.	note				
V2	Narrow widths, jams, reveals, sills, moldings measured to painting area unless otherwise given separately	note				
	INTERNAL					
	<u>Prepare and skim coated with acrylic filler to finish smooth and apply one coat of primer and two coats of emulsion paint of approved colour to plastered walls and columns & beams attached to walls</u>					
V3	Ground floor to first floor	m ²	773.70			
V4	First floor to second floor level	m ²	695.30			
	<u>Prepare texture paint of approved colour to plastered walls and columns & beams attached to walls</u>					
V5	Ground floor to first floor	m ²	11.30			
V6	First floor to second floor level	m ²	50.40			
	<u>Prepare and skim coated with acrylic filler to finish smooth and apply one coat of primer and two coats of emulsion paint of approved colour to sides and soffit of beams.</u>					
V7	Ground floor to first floor	m ²	155.70			
V8	First floor to second floor level	m ²	156.20			
V9	Above second floor level	m ²	94.6			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Prepare and skim coated with acrylic filler to finish smooth and apply one coat of primer and two coats of emulsion paint of approved colour to soffit slab.</u>					
V10	Ground floor to first floor	m ²	366.00			
V11	First floor to second floor level	m ²	376.00			
V12	Above second floor level	m ²	230.1			
	<u>Prepare and skim coated with acrylic filler to finish smooth and apply one coat of primer and two coats of emulsion paint of approved colour to soffit staircase.</u>					
V13	Ground floor to first floor	m ²	25.40			
V14	First floor to second floor level	m ²	25.40			
V15	Above second floor level	m ²	25.40			
	EXTERNAL					
	<u>Prepare and apply one coat of external primer and two coats of weather shield emulsion paint of approved colour to plastered walls and columns & beams attached to walls</u>					
V16	Ground floor to first floor	m ²	178.20			
V17	First floor to second floor level	m ²	189.50			
V18	Above second floor level	m ²	635.80			
	TOTAL FOR PAINTING					
	CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	W - DRAINAGE WORK					
W1	Rates for pipes shall include for burying in ground or walls or clipping to walls, suspended at ceiling/slab level as required and for pipe fittings such as bends, tees, Y junctions, inspection openings & reducers etc., and complete with brackets, supports & anchored.	note				
W2	Rate for pipes shall include for excavation, backfilling and removal of surplus materials.	note				
W3	All the sewer pipes & waste pipes to be PVC type 600 and similar fittings.	note				
	<u>Sewer disposal system</u>					
	<u>Main disposal line</u>					
W4	110mm (4") dia uPVC pipes type 600	nr	80.0			
	<u>Sewer man holes</u>					
W5	Sewer manhole (MH 01) including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W6	Sewer manhole (MH 02) including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W7	Sewer manhole (MH 03) including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W8	Sewer interceptor manhole including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Waste water disposal system</u>					
	<u>Main disposal line</u>					
W9	90mm (3") dia uPVC pipes types 600	m	24.9			
W10	75mm (2 1/2") dia uPVC pipes types 600	m	5.1			
W11	63mm (2") dia uPVC pipes types 600	m	72.8			
W12	50mm (1 1/2") dia uPVC pipes types 600	m	23.4			
W13	40mm (1 1/4") dia uPVC pipes types 600	m	8.4			
	<u>Waste manholes</u>					
W14	Waste manhole (MH 01) including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W15	Waste manhole (MH 02) including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W16	Waste manhole (MH 03) including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W17	Waste interceptor manhole including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
	<u>Gully with "P" trap</u>					
W18	Gully with "P" trap including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
W19	<u>Catch Pit</u> 6"x6" uPVC Catch Pit, "Supreme" or equivalent fixed to toilet floor slab with stainless steel grated cover with water proofing on top and sides complete with no leak inlet and outlet connection.	nr	13.0			
W20	<u>Trap floor gully</u> 6"x6" uPVC trap moulded floor gully, "Supreme" or equivalent fixed to toilet floor slab with stainless steel grated cover with water proofing on top and sides complete with no leak inlet and outlet connection.	nr	8.0			
W21	<u>Septic tank</u> Pre-cast septic tank & soakage pit for 10 people for 10 years (Contractor shall submit certification from supplier) including excavation, leveling, ramming bottom, backfilling, disposal of water and disposed excavated material as directed, with medium duty double lipped cast iron cover all complete as per drawing.	nr	1.0			
W22	<u>Soakage pit</u> 1380mm dia 1220mm deep concrete ring waste water soakage pit including excavation, backfilling, opening cover with lifting handles, metal packing, complete with all necessary connection to working order, with medium duty double lipped cast iron cover all complete as per drawing.	nr	1.0			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)	Rate in Words
	<u>Rain water drainage</u>					
W23	Rain water holding tank size 1500x600x2000mm, including excavation, R.C.C base, walls & slab including reinforcement finished with cement and 1:3 cement rendering all complete as per drawing.	nr	1.0			
W24	225mm (8") dia uPVC pipes type 600	m	15.0			
W25	300X250mm size rectangular concrete drain including necessary concrete, reinforcement, formwork all complete as per drawing.	m	34.7			
	<u>Inspection and Testing</u>					
W26	Testing drainage pipe network after commissioning in accordance with specification.	Item				
	TOTAL FOR DRAINAGE WORK CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
Z	DAY WORK SCHEDULES No claims will be entertained in respect of overhead charges or any other costs, or loss of profits which may allegedly result from the omission of all or part of the works covered by Day works items.				NOTE
	LABOUR				
1	Driver	day	2		
2	Plumber	day	2		
3	Electrician	day	2		
4	Painter	day	2		
5	Tiler	day	2		
6	Welder	day	2		
7	Barbender	day	2		
8	Carpenter	day	2		
9	Mason	day	2		
10	Semi skilled labourer	day	10		
11	Unskilled labourer	day	10		
12	Skilled labourer	day	10		
	TOTAL CARRIED TO DAY WORKS SUMMARY				
	MATERIAL				
1	Ordinary portland cement in 50 kg bags	nr	2		
2	Mild steel reinforcement , 6mm, 10mm	kg	2		
3	High yield reinforcement , 10mm, 12 mm, 16mm, 20mm, 25mm	kg	2		
4	River sand	m ³	1		
5	20 mm metal	m ³	1		
6	Binding Wire	kg	1		
7	Plywood Sheet for Formwork 8' x 4' (12mm)	nr	1		
8	Plywood Sheet for Formwork 8' x 4' (15mm)	nr	1		
	TOTAL CARRIED TO DAY WORKS SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
	PLANT				
1	Excavator-0.5 m3 capacity (with Operator and Fuel)	hr	2		
2	Mobile Crane - 10 tonnes capacity (with Operator and Fuel)	hr	2		
3	Welding Machine	hr	2		
4	Grinder	hr	2		
5	Tile Cutter	hr	2		
6	Generator - up to 20 KW	hr	2		
7	Concrete mixer - 0.25 m ³ capacity	hr	2		
8	Air Compressor -200 CFM	hr	2		
9	poker vibrator - 25 mm dia.	hr	2		
10	submersible Pump - 50 mm dia	hr	2		
11	Drill machine with hammer	hr	2		
12	Concrete breaker	hr	2		
	TOTAL CARRIED TO DAY WORKS SUMMARY				
	<u>DAY WORKS SUMMARY</u>				
1	Total for Day Works - Labour				
2	Total for Day Works - Material				
3	Total for Day Works - Plant				
	TOTAL OF DAY WORKS CARRIED TO GRAND SUMMARY				

**Establishment of Provincial Groundwater Management unit-Jaffna region for Water
Resources Board (Phase-1)**

**BILL OF QUANTITIES
GRAND SUMMARY**

NO.	DESCRIPTION	AMOUNT (Rs.)
1	B-PRELIMINARIES	
2	C - DEMOLITION	
3	D - EXCAVATION AND EARTHWORKS	
4	F - CONCRETE WORK	
5	G - MASONRY WORK	
6	H - WATER PROOFING	
7	J- STRUCTURAL METAL WORK	
8	K-METAL WORKS	
9	L- WOOD WORK	
10	N- PARTITION AND CEILING	
11	P - ROOF COVERING AND ROOF PLUMBING	
12	Q - PLUMBING AND SANITARY INSTALLATION	
13	S- ELECTRICAL INSTALLATION	
14	T-FLOOR WALL AND CEILING FINISHES	
15	V - PAINTING	
16	W - DRAINAGE WORK	
17	Y - PROVISIONAL SUMS	
A	SUB TOTAL 1 - Summery of No. 1 to 17	-
B	Deduct :. Provisional Sums	3,620,000.00
C	SUB TOTAL - 02 (A - B)	
D	Discounts (If Any)	
E	SUB TOTAL - 03 (C - D +B)	
F	Physical Contingencies - 10% of E	3,620,000.00
G	SUB TOTAL - 4 (E + F)	
H	Price Contingencies - 7% of E	
I	Total Bid Price Carried to Letter of Bid (G+H)	

Total Bid Price (Amount in words) :

J	VAT - 18% of Bid Price(18% of I)	
---	----------------------------------	--

VAT Registration No:

K	Provisional Sum - Total for Day Works	
Sub Total 5 (Bid Price with Day Works) (J +K)		
[Will be considered only for Evaluation Purpose)		

Bidders Name :

Address:

.....

.....

Signature & Seal of Bidder

Date: / /

Reference Only

Section 9 – Schedules

Reference Only

Schedule 1 – General Information			
(i) If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application. (ii) For joint ventures, each joint venture partner shall furnish information separately.			
ITB Clause reference	Description	Information (to be filled by the Bidder)	Remarks
4.1 (a)	Legal Status		<i>Provide certified copies of Registration</i>
	Written power of attorney of the signatory to the Bid	<i>Provide original or certified copy of the power of Attorney attested by a Notary and label as attachment to Clause 4.1(a)</i>	
	If a Joint Venture, names and addresses of Joint Venture Partners	1. 2. 3.	<i>Provide a draft copy of the Joint Venture Agreement or alternatively the memorandum of understanding</i>
	If a Joint Venture, name of Lead Partner		
<i>For joint ventures, each joint venture partner shall furnish Legal Status separately</i>			
	Name (Lead partner)		<i>Provide certified copies and label as attachment to Clause 4.1(a)</i>
	Legal status		
	Place of registration		
	Principle place of business		
	Written power of attorney of the signatory to the Bid	<i>Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 5.1</i>	
	VAT Registration Number		
	Name (Partner 2)		<i>Provide certified copies and label as attachment to Clause 4.1 (a)</i>
	Legal status		
	Place of registration		
	Principle place of business		
	Written power of attorney of the signatory to the Bid	<i>Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 4.1 (a)</i>	

	VAT Registration Number		
	Name (Partner 3)		<i>Provide certified copies and label as attachment to Clause 4.1 (a)</i>
	Legal status		
	Place of registration		
	Principle place of business		
	Written power of attorney of the signatory to the Bid	<i>Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 4.1 (a)</i>	
	VAT Registration Number		
4.2 (a)	(CIDA) ICTAD Registration		<i>Provide certified copies and label as attachment to Clause 4.2(a)</i>
	Registration number		
	Grade		
	Specialty		
	Expiry Date		

Reference Only

**Schedule 2 – Annual Turn-over Information
(Construction only – Last ten years)**

- (i) *If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.*
- (ii) *The Bidder shall demonstrate its financial capacity by submitting audited financial statements for the last ten (10) financial years. For the purpose of financial evaluation, the Bidder shall identify and submit its best-performing five (5) audited financial years from within the last ten (10) years.*
- (iii) *For joint ventures, each joint venture partner shall furnish information separately.*
- (iv) *Bids submitted with negative cash flows will be rejected during the evaluation.*

Year	Turn-over	Remarks
1		Attach audited reports and label as attachment to Clause 4.2
2		
3		
4		
5		
6		
7		
8		
9		
10		

Schedule 3 – Adequacy of Working Capital

If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application

Source of credit line	Amount	Remarks
		Provide documentary evidence and label as attachment to Clause 4.2
Total		

Schedule 4 – Construction Experience in last ten years

- (i) *If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.*
- (ii) *For joint ventures, each joint venture partner shall furnish information separately.*

Year	Employer	Description of Works	Amount	Contractor's Responsibility (%)
		Total		

- *Provide documentary evidence and label as attachment to Clause 4.2*

Schedule 5 – Major Items of Construction Equipment Proposed	
Type	Capacity

Reference Only

Schedule 6 – Construction Management Staff		
A. Key Professionals		
Name	Position	Task
B. Support Staff		
Name	Position	Task

Reference Only

Reference Only

Part-time:

Reference Only

Schedule 9 – Input percentages for Price Adjustment Formula		
Input Name <i>(Include major materials below the list, together with percentages for all inputs)</i>	ICTAD Reference for Indices	Percentage <i>(Percentages listed should added to 90.0)</i>
Total		

Please refer to the Contract Data Clause 13.7 for weightings of inputs.

Schedule 10 - Works in Hand

Contract	Name of the Employer	Description of work (attach a copy of letter of award)	Date of award of contract	Value of contract (Rs.)	Contract period	Whether extension of time has been granted	Percentage completion as at present
Contract 1							
Contract 2							
Contract 3							
Contract 4							
Contract 5							

Schedule 11: ESHS Management Strategies and Implementation Plans

(ESHS-MSIP)

The Bidder shall submit comprehensive and concise Environmental, Social, Health and Safety Management Strategies and Implementation Plans (ESHS-MSIP) as required by ITB 13.1 A (j) and 13.1 B (d). These strategies and plans shall describe in detail the actions, materials, equipment, management processes etc. that will be implemented by the Contractor, and its subcontractors.

Code of Conduct: Environmental, Social, Health and Safety (ESHS)

The Bidder shall submit the Code of Conduct that will apply to the Contract Manager and other key personnel as required by ITB 13.1 A (j) and 13.1 B (d) and subcontractors. The Code of Conduct shall ensure compliance with the ESHS provisions of the Contract.

In addition, the Bidder shall submit an outline of how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.

Environmental, social, health and safety requirements

The Employer should use the services of a suitably qualified environmental, social, health and safety specialist/s to prepare the specifications for ESHS working with a procurement specialist/s.

The Employer should attach or refer to the Employer's environmental, social, health and safety policies that will apply to the project. If these are not available, the Employer should use the following guidance in drafting an appropriate policy for the Works.

SUGGESTED CONTENT FOR AN ENVIRONMENTAL AND SOCIAL POLICY (STATEMENT)

The Works' policy goal, as a minimum, should be stated to integrate environmental protection, occupational and community health and safety, gender, equality, child protection, vulnerable people (including those with disabilities), sexual harassment, gender-based violence (GBV), sexual exploitation and abuse (SEA), HIV/AIDS awareness and prevention and wide stakeholder engagement in the planning processes, programs, and activities of the parties involved in the execution of the Works. The Employer is advised to consult with the World Bank to agree the issues to be included which may also address: climate adaptation, land acquisition and resettlement, indigenous people, etc. The policy should set the frame for monitoring, continuously improving processes and activities and for reporting on the compliance with the policy.

The policy shall include a statement that, for the purpose of the policy and/or code of conduct, the term "child" / "children" means any person(s) under the age of 18 years.

The policy should, as far as possible, be brief but specific and explicit, and measurable, to enable reporting of compliance with the policy in accordance with the Particular Conditions of the Contract Sub-Clause 4.21 and Appendix C to the General Conditions of Contract.

As a minimum, the policy is set out to the commitments to:

- 1. apply good international industry practice to protect and conserve the natural environment and to minimize unavoidable impacts;*
- 2. provide and maintain a healthy and safe work environment and safe systems of work;*
- 3. protect the health and safety of local communities and users, with particular concern for those who are disabled, elderly, or otherwise vulnerable;*
- 4. ensure that terms of employment and working conditions of all workers engaged in the Works meet the requirements of the ILO labour conventions to which the host country is a signatory;*
- 5. be intolerant of, and enforce disciplinary measures for illegal activities. To be intolerant of, and enforce disciplinary measures for GBV, inhumane treatment, sexual activity with children, and sexual harassment;*
- 6. incorporate a gender perspective and provide an enabling environment where women and men have equal opportunity to participate in, and benefit from, planning and development of the Works;*
- 7. work co-operatively, including with end users of the Works, relevant authorities, contractors and local communities;*
- 8. engage with and listen to affected persons and organizations and be responsive to their concerns, with special regard for vulnerable, disabled, and elderly people;*
- 9. provide an environment that fosters the exchange of information, views, and ideas that is free of any fear of retaliation, and protects whistleblowers;*
- 10. minimize the risk of HIV transmission and to mitigate the effects of HIV/AIDS associated with the execution of the Works;*

The policy should be signed by the senior manager of the Employer. This is to signal the intent that it will be applied rigorously.

MINIMUM CONTENT OF ESHS REQUIREMENTS

In preparing detailed specifications for ESHS requirements, the specialists should refer to and consider:

- project reports e.g. ESIA/ESMP*
- consent/permit conditions*
- required standards including World Bank Group EHS Guidelines*
- relevant international conventions or treaties etc., national legal and/or regulatory requirements and standards (where these represent higher standards than the WBG EHS Guidelines)*
- relevant international standards e.g. WHO Guidelines for Safe Use of Pesticides*
- relevant sector standards e.g. EU Council Directive 91/271/EEC Concerning Urban Waste Water Treatment*
- Grievance redress mechanism including types of grievances to be recorded and how to protect confidentiality e.g. of those reporting allegations of GBV/SEA.*

- *GBV/SEA prevention and management.*
- *The detail specification for ESHS should, to the extent possible, describe the intended outcome rather than the method of working*

The ESHS requirements should be prepared in manner that does not conflict with the relevant General Conditions of Contract and Particular Conditions of Contract, and in particular:

General Conditions of Contract

Sub-clause 1.13 Compliance with Laws

Sub-clause 2.2 Permits, Licenses and Approvals

Sub-clause 4.1 Contractor's General Obligations

Sub-clause 4.4 Subcontractors

Sub-clause 4.8 Safety Procedures

Sub-clause 4.19 Avoidance of Interference

Sub-clause 4.13 Protection of the Environment

Sub-clause 4.15 Contractor's Operations on the Site

Sub-clause 4.16 Fossils

Section 6 Staff and Labour (includes health and safety)

Sub-clause 7.1 Manner of Execution

Sub-clause 10 Clearance of Site

Sub-clause 12.3 Evaluation (reference ITB 14.2 "Items against which no rate or price is entered by the Bidder shall be deemed to be covered by the rates for other items in the Bill of Quantities and will not be paid separately by the Employer.")

MINIMUM REQUIREMENTS FOR THE BIDDER'S CODE OF CONDUCT

[A minimum requirement for the Code of Conduct should be set out by the Employer, taking into consideration the issues, impacts, and mitigation measures identified, for example, in:

- *project reports e.g. ESIA/ESMP*
- *any particular GBV/SEA requirements*
- *consent/permit conditions (regulatory authority conditions attached to any permits or approvals for the project)*
- *required standards including World Bank Group EHS Guidelines*
- *relevant international conventions, standards or treaties, etc., national legal and/or regulatory requirements and standards (where these represent higher standards than the WBG EHS Guidelines)*
- *relevant standards e.g. Workers' Accommodation: Process and Standards (IFC and EBRD)*
- *relevant sector standards e.g. workers' accommodation*

- *Grievance redress mechanisms.*

The types of issues identified could include. Risks associated with: labor influx, spread of communicable diseases, sexual harassment, gender based violence, illicit behavior and crime, and maintaining a safe environment etc.

[Amend the following instructions to the Bidder taking into account the above considerations.]

A satisfactory code of conduct will contain obligations on all Contractor's Personnel project staff (including sub-contractors and day workers) that are suitable to address the following issues, as a minimum. Additional obligations may be added to respond to particular concerns of the region, the location and the project sector or to specific project requirements. The code of conduct shall contain a statement that the term "child" / "children" means any person(s) under the age of 18 years.

The issues to be addressed include:

1. Compliance with applicable laws, rules, and regulations
2. Compliance with applicable health and safety requirements to protect the local community (including vulnerable and disadvantaged groups), the Employer's Personnel, and the Contractor's Personnel (including wearing prescribed personal protective equipment, preventing avoidable accidents and a duty to report conditions or practices that pose a safety hazard or threaten the environment)
3. The use of illegal substances
4. Non-Discrimination in dealing with the local community (including vulnerable and disadvantaged groups), the Employer's Personnel, and the Contractor's Personnel (for example on the basis of family status, ethnicity, race, gender, religion, language, marital status, age, disability (physical and mental), sexual orientation, gender identity, political conviction or social, civic, or health status)
5. Interactions with the local community(ies), members of the local community (ies), and any affected person(s) (for example to convey an attitude of respect, including to their culture and traditions)
6. Sexual harassment (for example to prohibit use of language or behavior, in particular towards women and/or children, that is inappropriate, harassing, abusive, sexually provocative, demeaning or culturally inappropriate)
7. Violence, including sexual and/or gender based violence (for example acts that inflict physical, mental or sexual harm or suffering, threats of such acts, coercion, and deprivation of liberty)
8. Exploitation including sexual exploitation and abuse (for example the prohibition of the exchange of money, employment, goods, or services for sex, including sexual favors or other forms of humiliating, degrading behavior, exploitative behavior or abuse of power)
9. Protection of children (including prohibitions against sexual activity or abuse, or otherwise unacceptable behavior towards children, limiting interactions with children, and ensuring their safety in project areas)
10. Sanitation requirements (for example, to ensure workers use specified sanitary facilities provided by their employer and not open areas)
11. Avoidance of conflicts of interest (such that benefits, contracts, or employment, or any sort of preferential treatment or favors, are not provided to any person with whom there is a financial, family, or personal connection)

12. Respecting reasonable work instructions (including regarding environmental and social norms)
13. Protection and proper use of property (for example, to prohibit theft, carelessness or waste)
14. Duty to report violations of this Code
15. Non retaliation against workers who report violations of the Code, if that report is made in good faith.

The Code of Conduct should be written in plain language and signed by each worker to indicate that they have:

- received a copy of the code;
- had the code explained to them;
- acknowledged that adherence to this Code of Conduct is a condition of employment; and
- Understood that violations of the Code can result in serious consequences, up to and including dismissal, or referral to legal authorities.

A copy of the code shall be displayed in a location easily accessible to the community and project affected people. It shall be provided in languages comprehensible to the local community, Contractor's Personnel, Employer's Personnel, and affected persons.

PAYMENT FOR ESHS REQUIREMENTS

The Employer's ESHS and procurement specialists should consider how the Contractor will cost the delivery of the ESHS requirements. In the majority of cases, the payment for the delivery of ESHS requirements shall be a subsidiary obligation of the Contractor covered under the prices quoted for other Bill of Quantity items. For example, normally the cost of implementing work place safety systems of work, including the majors necessary for ensuring traffic safety, shall be covered by the Bidder's rates for the relevant works. Alternatively, provisional sums could be set aside for discrete activities for example for HIV counselling service, and, GBV/SEA awareness and sensitization or to encourage the contractor to deliver additional ESHS outcomes beyond the requirement of the Contract.

Section - 10

Drawings

Please refer the Volume 2 of the Bidding Document for Drawings.

Reference Only

LIST OF DRAWINGS - ARCHITECTURAL PHASE 1

CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

- GROUND FLOOR PLAN - 74/EIROJ/P1/AR-WD/01
- FIRST FLOOR PLAN - 74/EIROJ/P1/AR-WD/02
- SECOND FLOOR PLAN - 74/EIROJ/P1/AR-WD/03
- ROOF TERRACE PLAN - 74/EIROJ/P1/AR-WD/04
- ROOF PLAN - 74/EIROJ/P1/AR-WD/05
- FRONT ELEVATION - 74/EIROJ/P1/AR-WD/06
- RIGHT SIDE ELEVATION - 74/EIROJ/P1/AR-WD/07
- REAR SIDE ELEVATION - 74/EIROJ/P1/AR-WD/08
- LEFT SIDE ELEVATION - 74/EIROJ/P1/AR-WD/09
- SECTION X-X - 74/EIROJ/P1/AR-WD/10
- SECTION Y-Y - 74/EIROJ/P1/AR-WD/11
- OPENINGS SCHEDULE - 74/EIROJ/P1/AR-WD/12
- FLOOR FINISHES
 - a. GROUND FLOOR PLAN - 74/EIROJ/P1/AR-WD/13
 - b. FIRST FLOOR PLAN - 74/EIROJ/P1/AR-WD/14
- MAIN DISTRIBUTION BOARD(MDB) - 74/EIROJ/P1/E/01
- FLOOR DISTRIBUTION BOARDS(FDB'S) - 74/EIROJ/P1/E/02
- CONSUMER UNITS(CU'S) GROUND FLOOR - 74/EIROJ/P1/E/03
- CONSUMER UNITS(CU'S) FIRST FLOOR - 74/EIROJ/P1/E/04
- CONSUMER UNITS(CU'S) SECOND FLOOR - 74/EIROJ/P1/E/05
- LEGEND - LIGHTING,POWER,DATA & TELEPHONE - 74/EIROJ/P1/E/06
- LIGHTING LAYOUT
 - a. GROUND FLOOR PLAN - 74/EIROJ/P1/E/07
 - b. FIRST FLOOR PLAN - 74/EIROJ/P1/E/08
- POWER,DATA & TELEPHONE LAYOUT
 - a. GROUND FLOOR PLAN - 74/EIROJ/P1/E/12
 - b. FIRST FLOOR PLAN - 74/EIROJ/P1/E/13

- CEILING LAYOUT
 - a. GROUND FLOOR PLAN - 74/EIROJ/P1/E/17
 - b. FIRST FLOOR PLAN - 74/EIROJ/P1/E/18
- DETAILS OF DOORS & WINDOWS (G,1,2,RT)
 - 74/EIROJ/P1/AR-WD/18
 - 74/EIROJ/P1/AR-WD/19
 - 74/EIROJ/P1/AR-WD/20
 - 74/EIROJ/P1/AR-WD/21
 - 74/EIROJ/P1/AR-WD/22
 - 74/EIROJ/P1/AR-WD/23
 - 74/EIROJ/P1/AR-WD/24
 - 74/EIROJ/P1/AR-WD/25
- PARTITION LAYOUT
 - a. GROUND FLOOR PLAN - 74/EIROJ/P1/AR-WD/26
 - b. FIRST FLOOR PLAN - 74/EIROJ/P1/AR-WD/27
 - c. TYPICAL PARTITION DETAILS - 74/EIROJ/P1/AR-WD/28
- DETAILS OF TYPICAL HANDRAIL - 74/EIROJ/P1/AR-WD/29
- DETAILS OF RECEPTION - 74/EIROJ/P1/AR-WD/30
- DETAILS OF TYPICAL HANDRAIL FIRST FLOOR AND SECOND FLOOR - 74/EIROJ/P1/AR-WD/31

- TOILET DETAIL
 - a. KEY PLAN - 74/EIROJ/P1/AR-WD/36
 - b. KEY PLAN - 74/EIROJ/P1/AR-WD/37
 - d. DETAILS OF TOILET - TYPE 01 & TYPE 02 (GROUND FLOOR) - 74/EIROJ/P1/AR-WD/39
 - e. DETAILS OF TOILET - TYPE 03 & TYPE 05 (GROUND FLOOR) - 74/EIROJ/P1/AR-WD/40
 - f. DETAILS OF TOILET - TYPE 04 (GROUND FLOOR) - 74/EIROJ/P1/AR-WD/41
 - g. DETAILS OF TOILET - TYPE 06 & TYPE 07 (FIRST FLOOR) - 74/EIROJ/P1/AR-WD/42
 - h. DETAILS OF TOILET - TYPE 08 & TYPE 09 (FIRST FLOOR) - 74/EIROJ/P1/AR-WD/43
 - i. DETAILS OF TOILET - TYPE 10 (FIRST FLOOR) - 74/EIROJ/P1/AR-WD/44

BRIEF

USABLE AREAS

- SECURITY ROOM - 4.89 sqm
- TOILET - 3.31 sqm
- CAR PORCH - 61.87 sqm
- LOBBY AREA - 28.44 sqm
- RECEPTION AREA - 6.62 sqm
- PROVINCIAL MANAGER ROOM - 20.92 sqm
- TOILET - 3.24 sqm
- MEETING ROOM - 21.75 sqm
- EQUIPMENT ROOM - 10.07 sqm
- MA CABIN 1 - 21.55 sqm
- MA CABIN 2 - 7.28 sqm
- CABIN 1 - 8 sqm
- CABIN 2 - 8 sqm
- CABIN 3 - 5.60 sqm
- CABIN 4 - 6.43 sqm
- LABOUR ROOM - 9 sqm
- DRIVER'S ROOM - 19.59 sqm
- TOILET - 4.83 sqm
- COMMON STAIRCASE - 01 No.
- PASSENGER LIFT - 01 No.
- PARKING - 3 Nos.

TOILET

- DISABLE TOILET - 4 sqm
- MALE TOILET - 2.5 sqm
- FEMALE TOILET - 2.5 sqm
- DUCT 1 - PLUMBING DUCT(600 X 1200)mm
- DUCT 2 - ELECTRICAL DUCT(450 X 1000)mm
- TOTAL FLOOR AREA - 365.20 sqm

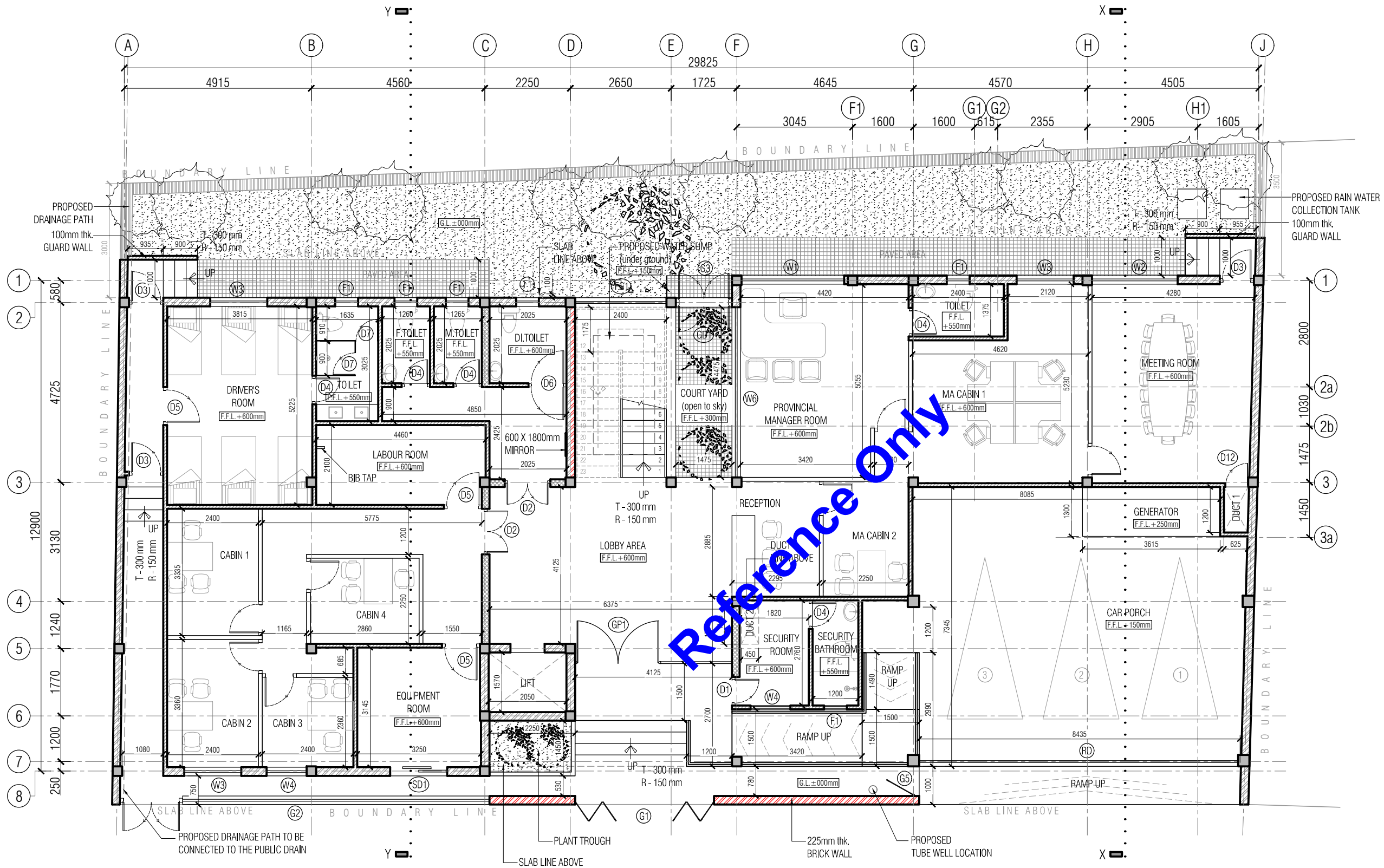
CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
GROUND FLOOR PLAN

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
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E mail : mail@slirdc.lk
web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M)-
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/01	Date - 03-07-2026
A3		Rev. No. -
		Sheet. No. -



- LEGEND**
- 225mm thk.WIRE CUT BRICK WALL
 - 225mm thk.BRICK WALL
 - 100mm thk.BLOCK WALL
 - 200mm thk.BLOCK WALL
 - PARTITION WALL

GROUND FLOOR PLAN

SCALE - 1:100
AREA - 365.20 sqm

BRIEF

USABLE AREAS

- LOBBY AREA - 13.50 sqm
- HYDRO GEOLOGIST CABIN - 5.76 sqm
- MICRO BIOLOGICAL - 63 sqm
& CHEMICAL LAB
- LABORATORY ANALYST - 46.63 sqm
& CHEMIST
- DATA CENTER - 20.10 sq m
- DINING AREA - 36.53 sqm
- PANTRY - 16.29 sqm
- OFFICE ROOM 1 - 18.37 sqm
TOILET - 3.44 sqm
- OFFICE ROOM 2 - 18 sqm
TOILET - 3.44 sqm
- OFFICE ROOM 3 - 17.39 sqm
TOILET - 3.36 sqm
- OFFICE ROOM 4 - 23.06 sqm
TOILET - 2.72 sqm
- COMMON STAIRCASE - 01 No.
- PASSENGER LIFT - 01 No.

TOILET

- MALE & FEMALE TOILET - 6 sqm
- DUCT 1 - PLUMBING DUCT(600 X 1200)mm
- DUCT 2 - ELECTRICAL DUCT(450 X 1000)mm
- TOTAL FLOOR AREA - 356.42 sqm

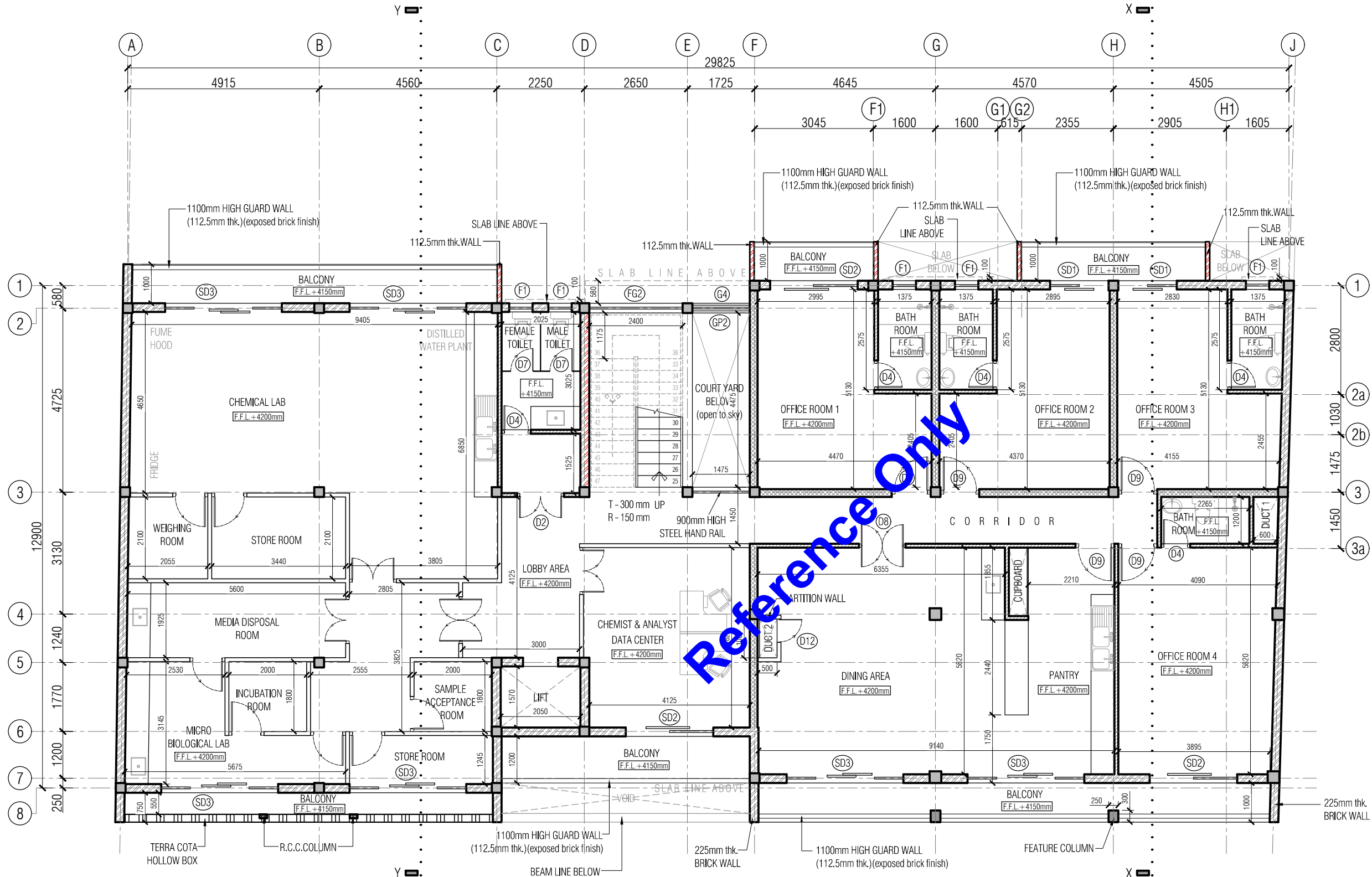
CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE : FIRST FLOOR PLAN

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
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web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/02	Rev. No. - Sheet. No.-



- LEGEND
- 225mm thk.WIRE CUT BRICI
 - 112.5mm thk.WIRE CUT BRI
 - 225mm thk.BRICK WALL
 - 100mm thk.BLOCK WALL
 - 200mm thk.BLOCK WALL
 - PARTITION WALL

FIRST FLOOR PLAN

SCALE - 1:100
AREA - 356.42 sqm

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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USABLE AREAS

- DUCT 1 - PLUMBING DUCT(600 X 1200)mm
- DUCT 2 - ELECTRICAL DUCT(450 X 1000)mm
- SECOND FLOOR AREA - 340.38 sqm
- TERRACE AREA AREA - 5.32 sqm

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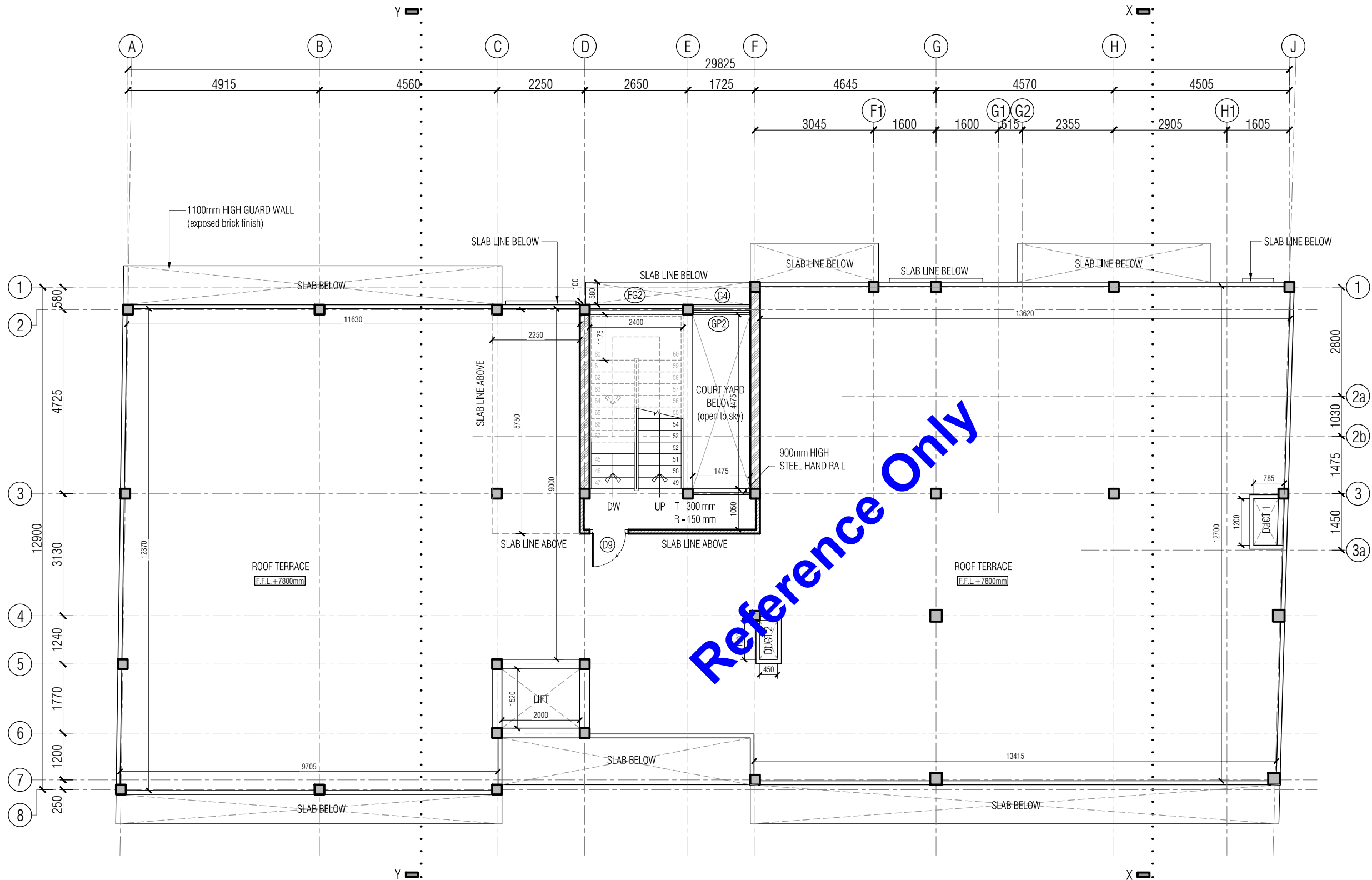
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PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
SECOND FLOOR PLAN

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
Drawn	Mr.THILANGA	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIJO/P1/AR-WD/03	Rev. No. -	Sheet No.-



LEGEND

- 250mm thk.BRICK WALL
- 100mm thk.BLOCK WALL
- R.C.C.WALL

SECOND FLOOR PLAN

SCALE - 1:100
AREA - 5.32 sqm

DRAWING TYPE :
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PHASE - 1

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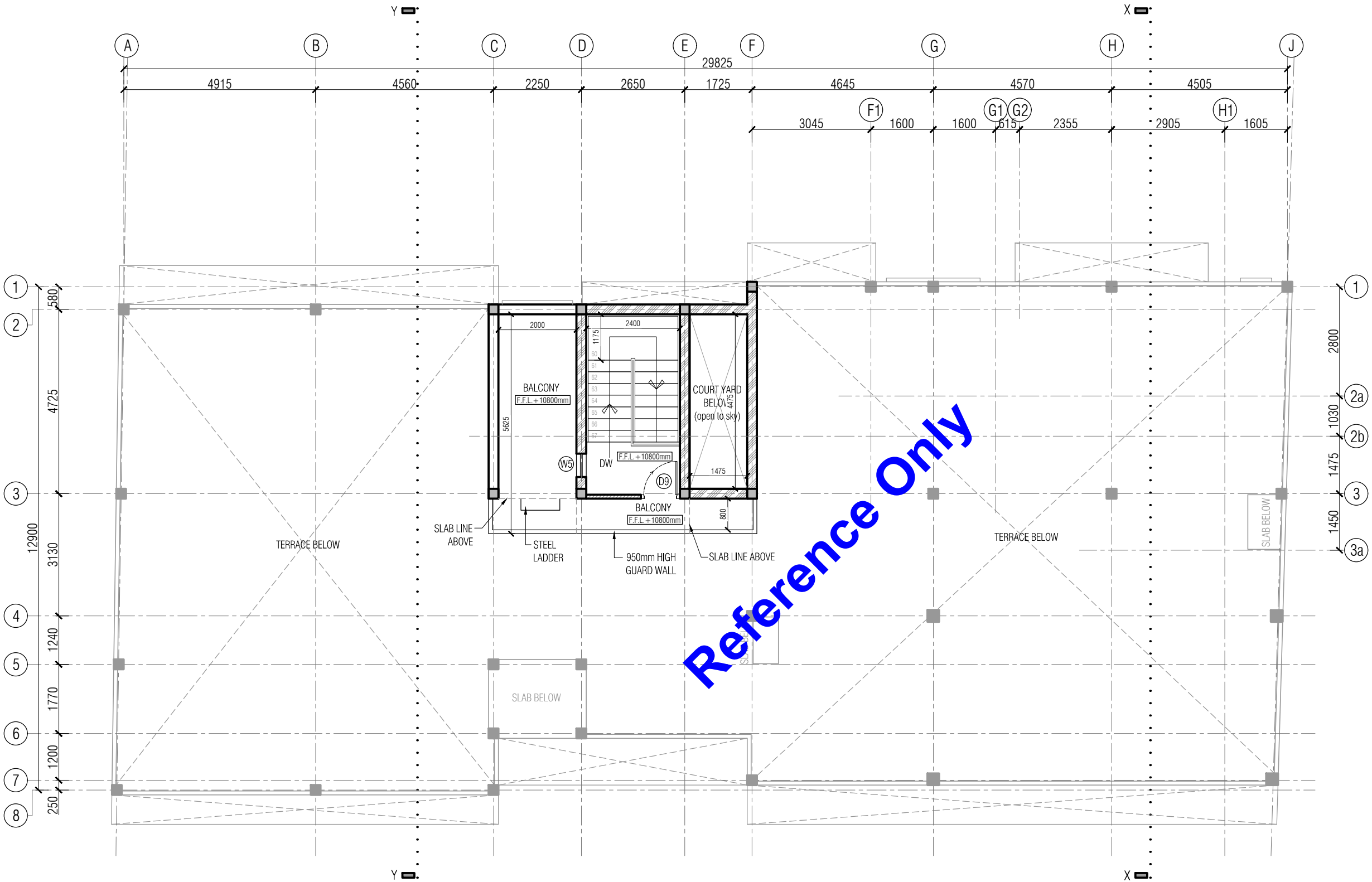
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PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
ROOF TERRACE PLAN

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRIJAYAWARDENAPURA, MAWATHA, WELUKADA, RAJAGIRIYA,
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2025
Sheet size	A3	Rev. No. -
Drawing no.	74/EIROJ/P1/AR-WD/04	Sheet. No.-



ROOF TERRACE PLAN
SCALE - 1:100

E I R O J

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PHASE - 1**

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

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CLIENT : PROJECT DIRECTOR, IWWRMP

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

TITLE : ROOF PLAN

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
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web : www.landdevelopment.lk

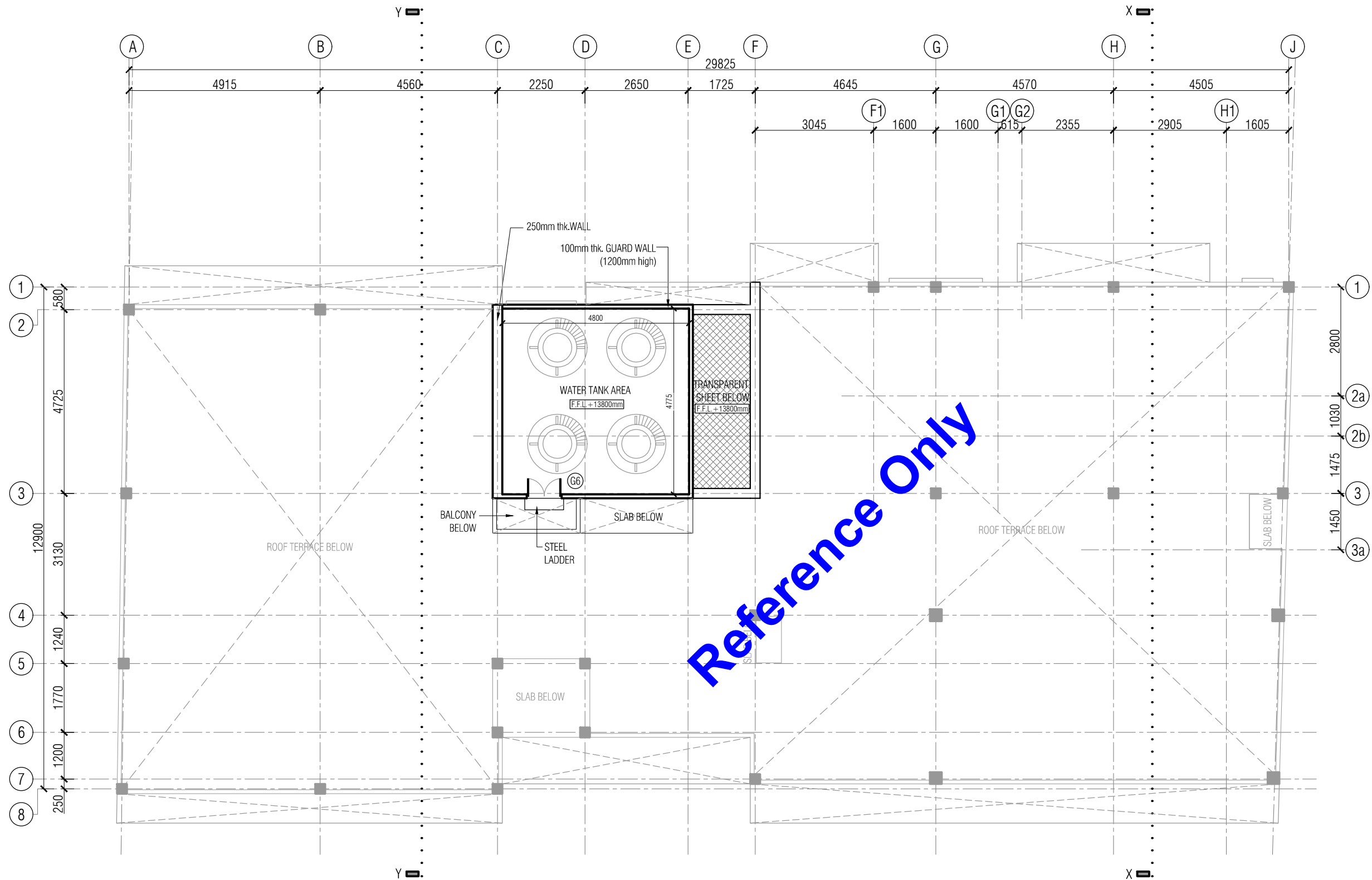
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Drawn	Mr.THILANGA	Approved (D G M)
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Checked D.O.A.	Mrs. MIHIRAN
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ROOF PLAN

SCALE - 1:100

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PHASE - 1

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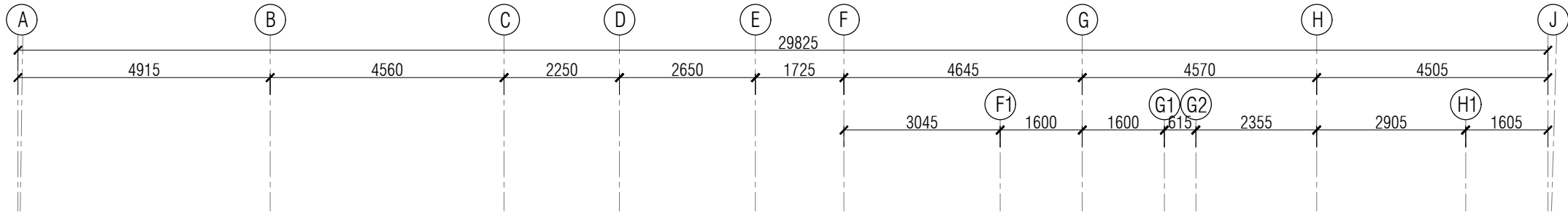
CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
FRONT ELEVATION

 SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-	
Drawn	Mr.THILANGA	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size	Drawing no.	Rev. No. -	Sheet. No. -
A3	74/EIROJ/P1/AR-WD/06		



+15000mm
▼
+13800mm WATER TANK LEVEL
▼
+10800mm ROOF TERRACE LEVEL
▼
+7800mm SECOND FLOOR LEVEL
▼
+4200mm FIRST FLOOR LEVEL
▼
+600mm GROUND FLOOR LEVEL
▼
±000mm GROUND LEVEL
▼
-150mm ROAD LEVEL
▼

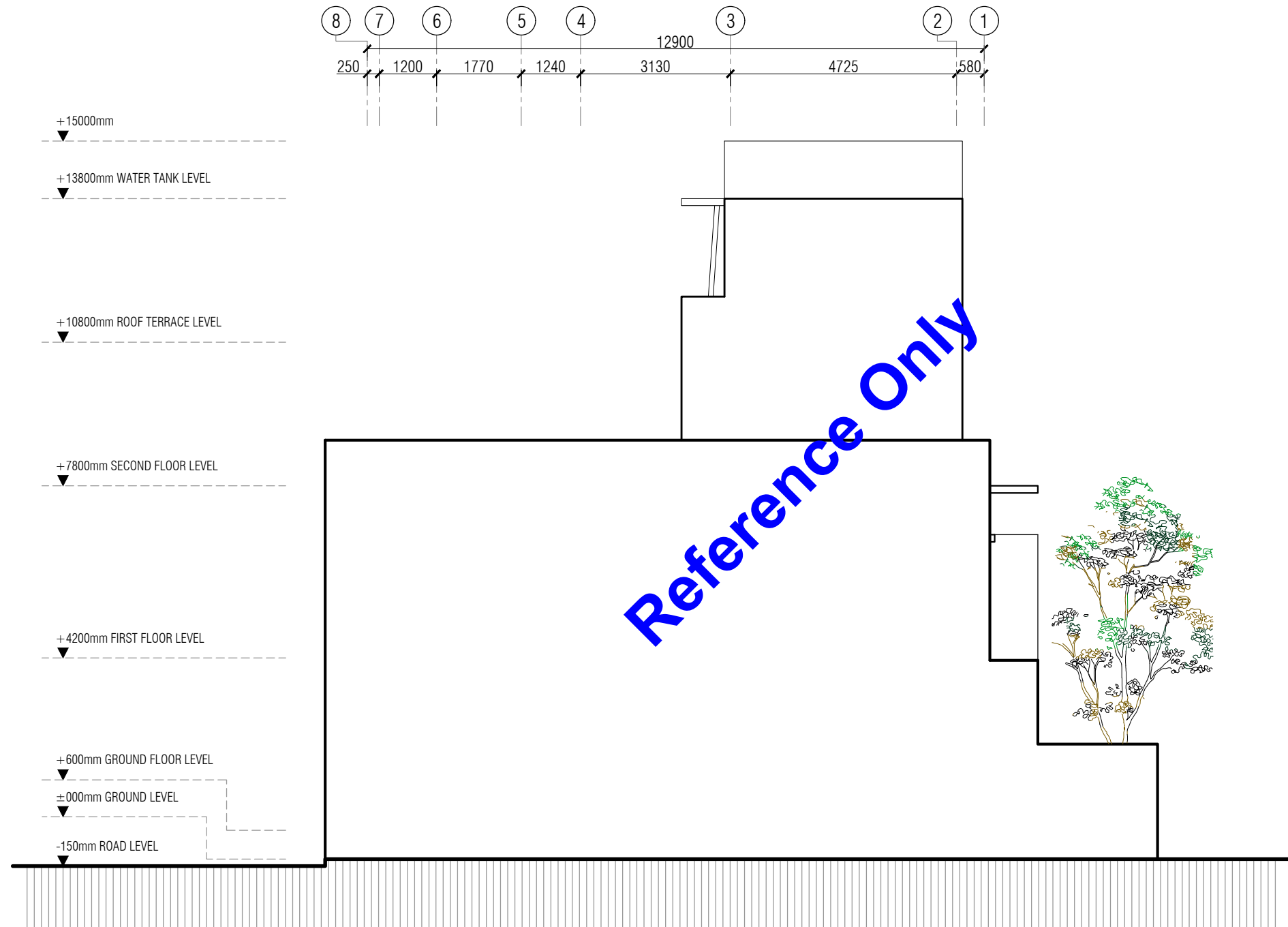
FRONT ELEVATION

SCALE - 1:100

E I R O J

**DRAWING TYPE : ARCHITECTURAL - WORKING DRAWINGS
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Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd



RIGHT SIDE ELEVATION

SCALE - 1:100

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : RIGHT SIDE ELEVATION



Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-	
Drawn	Mr.THILANGA		
Checked D.O.A	Mrs. MIHIRANI	Approved (D.G.M) -	
Cad file		Scale - AS SHOWN	Date - 03-07-2026
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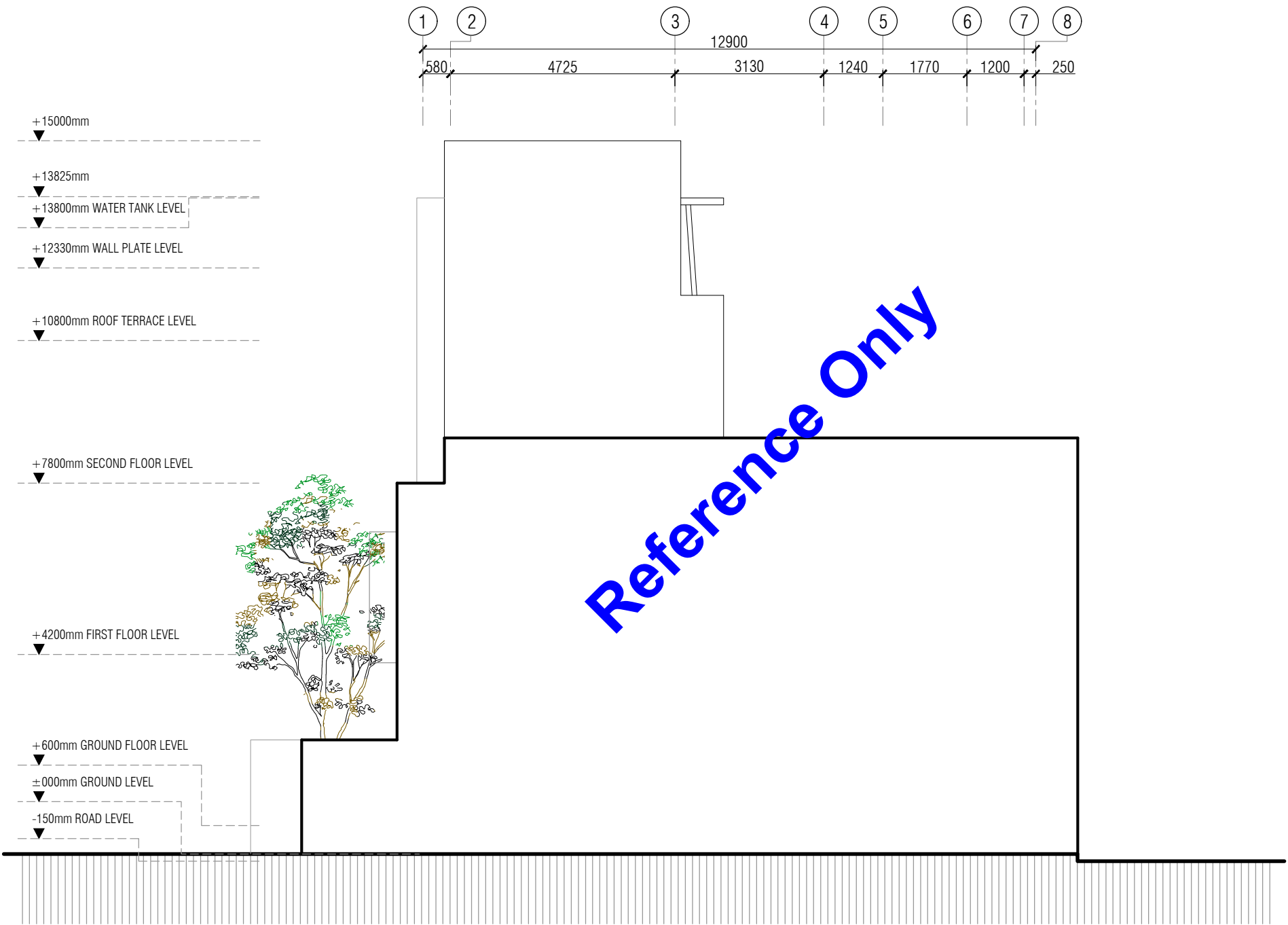
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PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
LEFT SIDE ELEVATION

 SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELUKADA, RAJAGIRIYA
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web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
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Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2025
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LEFT SIDE ELEVATION
SCALE - 1:100

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

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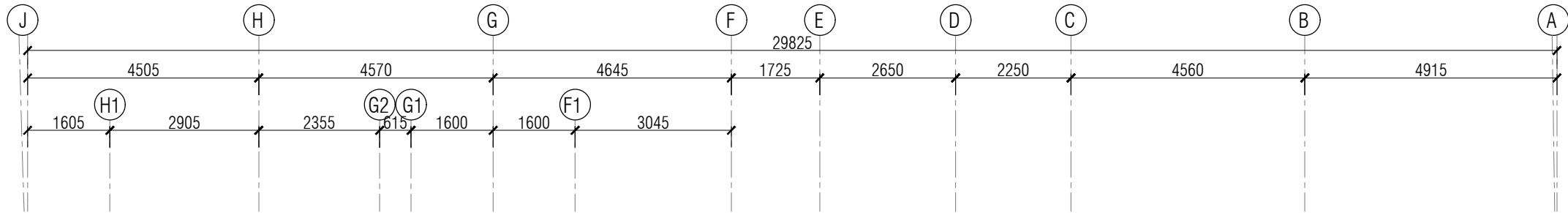
CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
REAR ELEVATION

 SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELUKADA, RAJAGIRIYA
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Cad file		Scale - AS SHOWN Date - 03-07-2026 Rev. No. -
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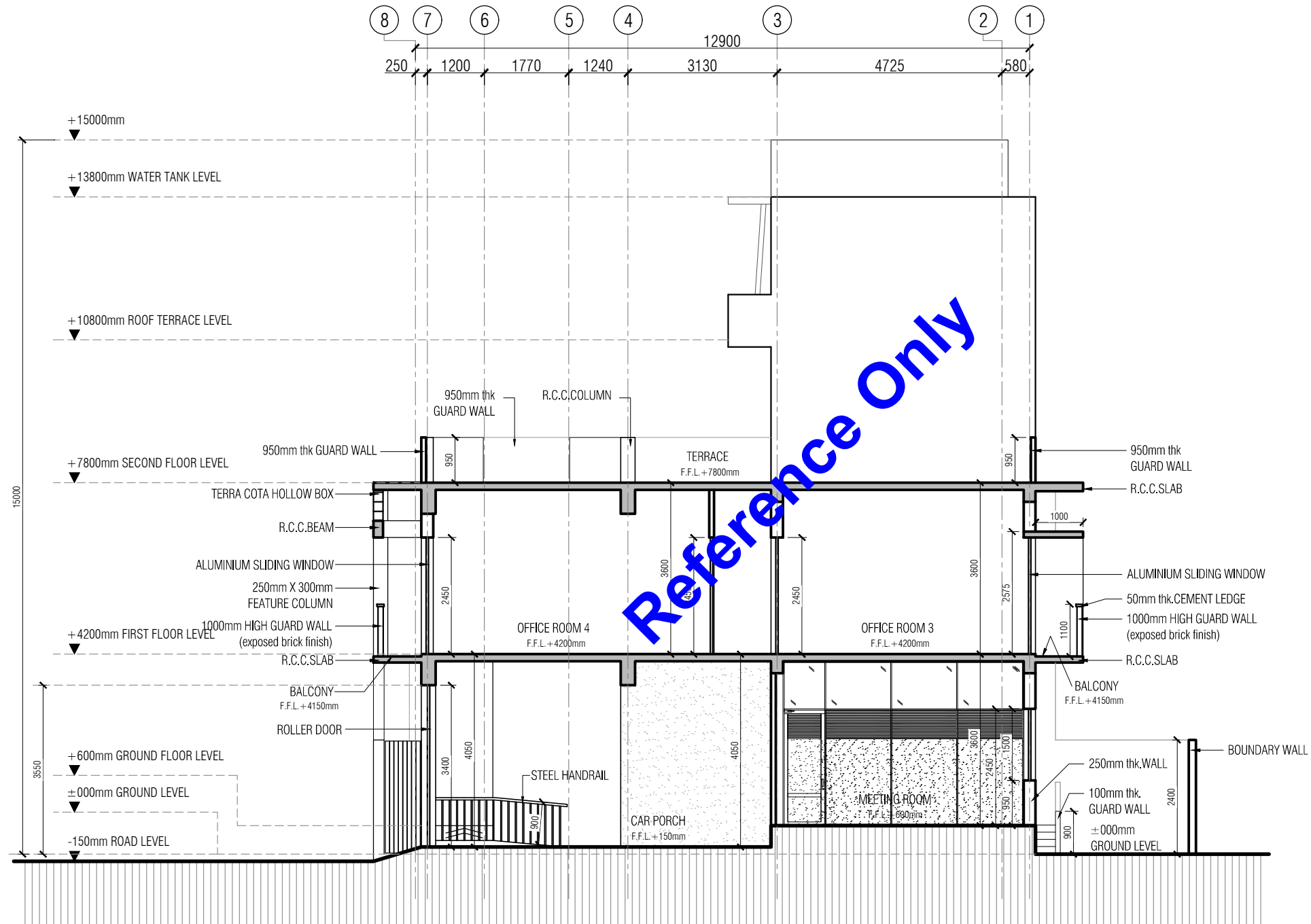


REAR ELEVATION

SCALE - 1:100

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd



SECTION X-X
SCALE - 1:100

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR, IWWMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE : SECTION X-X

SRI LANKA LAND DEVELOPMENT CORPORATION
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web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. A3 74/EIROJ/P1/AR-WD/10	Rev. No. - Sheet. No.-

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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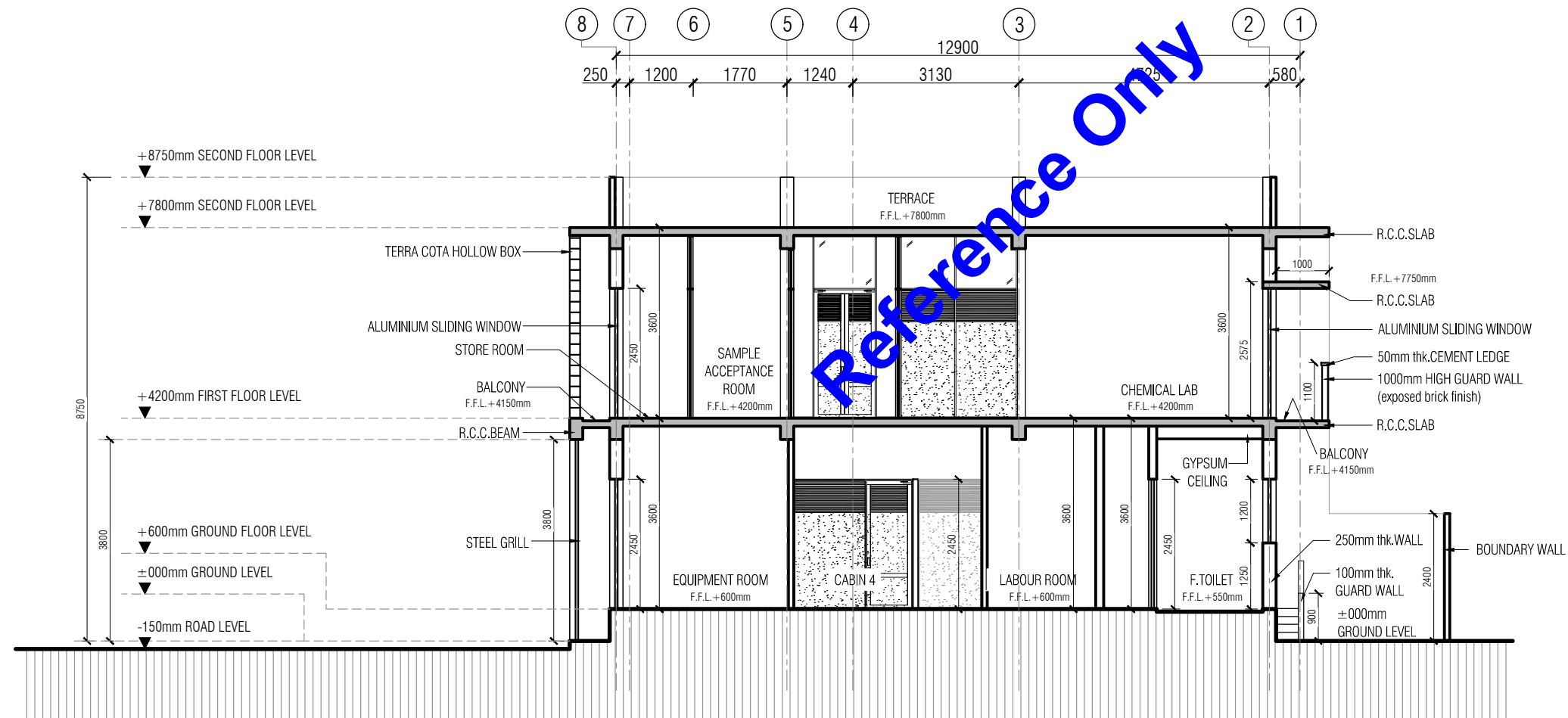
CLIENT : PROJECT DIRECTOR, IWWTMP

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

TITLE : SECTION Y-Y

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
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Fax : +94 11 2862457 / +94 112868001
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Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture) -
Drawn	Mr.THILANGA	
Checked D.O.A	Mrs. MIHIRANI	Approved (D.G.M) -
Cad file		Scale - AS SHOWN
Sheet size	Drawing no.	Date - 03-07-2026
A3	74/EIRO/1/P1-AR-WD/11	Rev. No. -
		Sheet. No.-



SECTION Y-Y
SCALE - 1:100

E I R O J

**DRAWING TYPE : ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1**

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd	

S C H E D U L E O F O P E N I N G S								NOS.
NAME	SIZE(mm)	SILL HEIGHT(mm)	DESCRIPTION	Gr	1st	2nd	Roof terrace	
D1	750 x 2450	-	POWDER COATED ALUMINIUM FRAMED GLAZED PANEL DOOR(fixed glass on top)	01	-	-	-	01
D2	1200 x 2450	-	FIRE RATED TIMBER DOOR(fixed glass on top)	02	01	-	-	03
D3	900 x 2450	-	TIMBER SOLID TIMBER DOOR(fixed glass on top)	03	-	-	-	03
D4	750 x 2450	-	TIMBER SOLID TIMBER DOOR(fixed glass on top)	05	05	05	-	15
D5	1000 x 2450	-	TIMBER SOLID TIMBER DOOR(fixed louvers on top)	03	-	-	-	03
D6	1000 x 2450	-	POWDER COATED ALUMINIUM FRAMED DISABLE TOILET DOOR(fixed louvers on top)	01	-	-	-	01
D7	600 x 1800	-	TOILET PARTITION DOOR	02	02	03	-	07
D8	1200 x 2450	-	FIRE RATED TIMBER DOOR(fixed glass on top & double swing)	-	01	01	-	03
D9	1000 x 2450	-	TIMBER SOLID TIMBER DOOR(fixed glass on top)	-	05	05	02	12
D10	1200 x 2450	-	TIMBER DOOR(fixed glass on top)	-	-	01	-	01
D11	1500 x 2450	-	TIMBER DOOR(fixed glass on top)	-	-	01	-	01
D12	600 x 1800	-	ALUMINIUM DUCT DOOR	01	01	02	-	04
GP1	4125 x 3450	-	10mm thk TEMPERED GLASS PANEL	01	-	-	-	01
GP2	1475 x 3300	-	10mm thk TEMPERED GLASS PANEL	-	01	01	-	02
GD1	1475 x 1500	-	POWDER COATED ALUMINIUM GLAZED DOUBLE DOOR	01	-	-	-	01
SD1	1500 x 2450	-	POWDER COATED ALUMINIUM SLIDING DOOR(fixed glass on top)	01	02	02	-	05
SD2	2250 x 2450	-	POWDER COATED ALUMINIUM SLIDING DOOR(fixed glass on top)	-	03	02	-	05
SD3	3000 x 2450	-	POWDER COATED ALUMINIUM SLIDING DOOR(fixed glass on top)	-	06	06	-	12
SD4	4125 x 2450	-	POWDER COATED ALUMINIUM SLIDING DOOR(fixed glass on top)	-	-	01	-	01
W1	2700 x 1500	950	POWDER COATED ALUMINIUM GLAZED WINDOW(fixed glass on top)	01	-	-	-	01
W2	2250 x 1500	950	POWDER COATED ALUMINIUM GLAZED WINDOW(fixed glass on top)	01	-	-	-	01
W3	1500 x 1500	950	POWDER COATED ALUMINIUM GLAZED WINDOW(fixed glass on top)	03	-	-	-	03
W4	1050 x 1500	950	POWDER COATED ALUMINIUM GLAZED WINDOW(fixed louvers on top & fixed glass on bottom)	02	-	-	-	02
W5	600 x 2450	-	POWDER COATED ALUMINIUM GLAZED WINDOW(fixed louvers on top & bottom)	-	-	-	01	01
W6	4475 x 1500	950	POWDER COATED ALUMINIUM GLAZED WINDOW(fixed glass on top)	01	-	-	-	01
F1	600 x 1300	1150	POWDER COATED ALUMINIUM FANLIGHT(fixed louvers on top & fixed glass on bottom)	06	05	05	-	16
FG1	2400 x 1500	-	POWDER COATED ALUMINIUM FIXED GLASS PANEL(with top hung windows in both side)	01	-	-	-	01
FG2	2400 x 3300	-	POWDER COATED ALUMINIUM FIXED GLASS PANEL(with top hung windows in both side)	-	01	01	-	02
FG3	9385 x 1530	-	POWDER COATED ALUMINIUM FIXED GLASS PANEL	-	-	-	01	01
G1	3650 x 2400	-	STEEL GRILL GATE	01	-	-	-	01
G2	9670 x 3800	-	STEEL GRILL WORK	01	-	-	-	01
G3	1475 x 1500	-	DOUBLE SASH STEEL GRILL GATE	01	-	-	-	01
G4	1475 x 3300	-	STEEL FIXED GRILL PANEL	-	01	01	-	02
G5	780 x 2400	-	STEEL WICKET GATE	01	-	-	-	01
G6	900 x 1200	-	STEEL GRILL GATE AT WATER TANK LEVEL	-	-	-	01	01
RD	8385 x 3400	-	ROLLER DOOR	01	-	-	-	01

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR, IWWRMP

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

TITLE : OPENINGS SCHEDULE

 **SRI LANKA LAND DEVELOPMENT CORPORATION**
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Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-	
Drawn	Mr.THILANGA	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIRO/P1/AR-WD/12		Rev. No. -
			Sheet. No.-

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

LEGEND :

- | | |
|---|--|
|  | 100 X 100mm PAVING |
|  | 600 X 600mm NON SLIP HOMOGENEOUS FLOOR TILE - TYPE 3 |
|  | 600 X 600mm NON SLIP HOMOGENEOUS FLOOR TILE - TYPE 1 |
|  | STAIRCASE - SUPER TITANIUM FINISH |
|  | 300 X 600mm ROUGH TEXTURED FLOOR TILE |
|  | 300 X 600mm NON SLIP HOMOGENEOUS FLOOR TILE - TYPE 1 |
|  | WALL - 300 X 600mm GLAZED WALL TILES TYPE 2 |
|  | SUPER TITANIUM FINISH |
|  | EXPOSED BRICK FINISH |
|  | PAINTED TEXTURE FINISH TYPE 1 |
|  | POWER TROWEL FINISH |

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

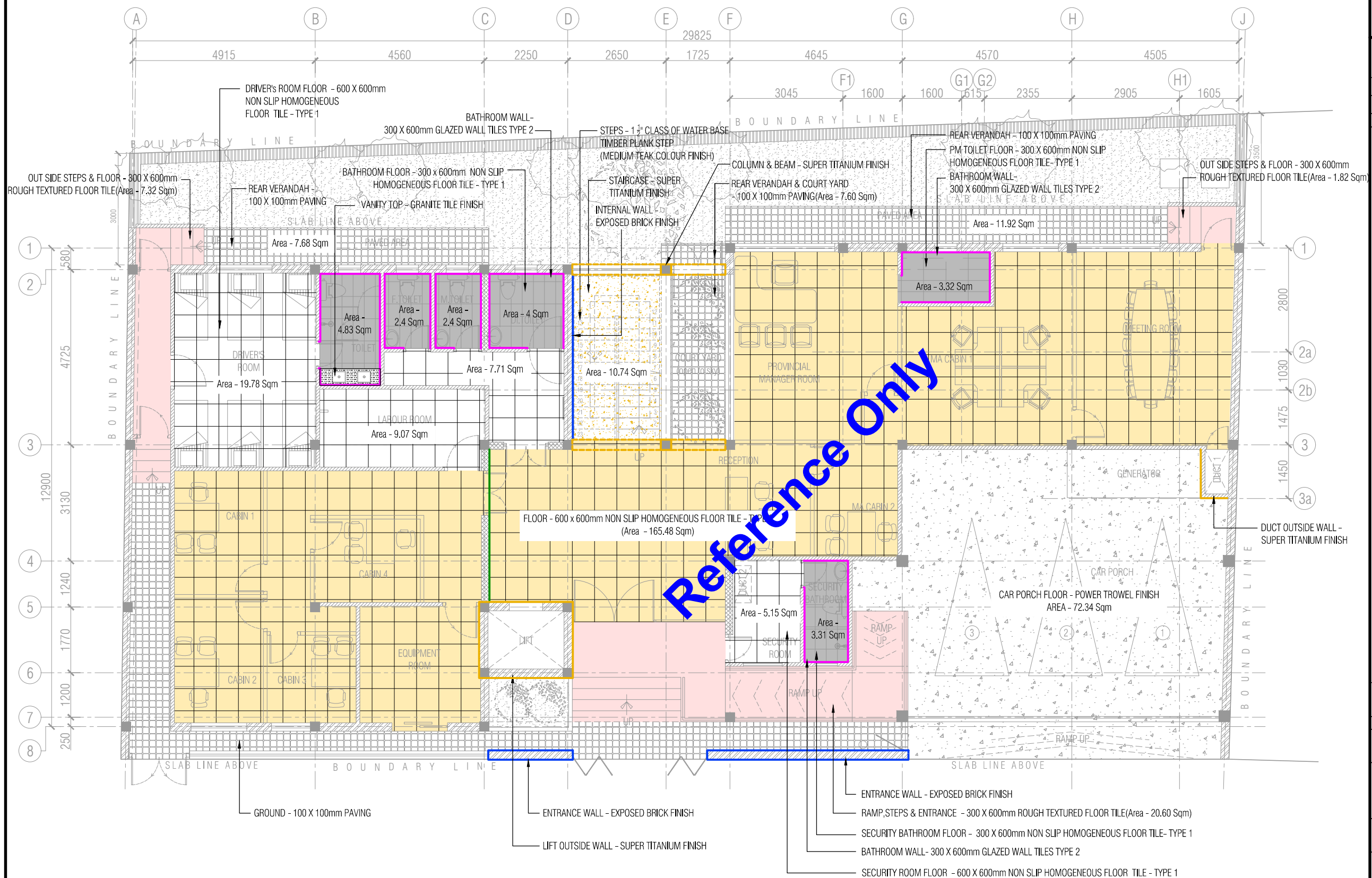
CLIENT : PROJECT DIRECTOR, IWWRMP

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

TITLE :
FINISHING LAYOUT - GROUND FLOOR

 **SRI LANKA LAND DEVELOPMENT CORPORATION**
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web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	
Checked D.O.A	Mrs. MIHIRANI	Approved (D.G.M) :
Cad file		Scale - AS SHOWN
Sheet size A3	Drawing no. 74/EIRO/P1/AR-WD/13	Date - 03-07-2026
		Rev. No. -
		Sheet. No.-



NOTE -

- INTERNAL WALLS - SMOOTH FINISH WITH 2 COAT OF EMULSION PAINT.
- EXTERNAL WALLS - ROUGH FINISH WITH 2 COAT OF WEATHER SHIELD PAINT

FINISHING LAYOUT - GROUND FLOOR

SCALE - 1:100

LEGEND :

	600X600mm NON SLIP HOMOGENEOUS FLOOR TILE- TYPE 2
	600 x 600mm NON SLIP HOMOGENEOUS FLOOR TILE - TYPE 3
	600 X 600mm NON SLIP HOMOGENEOUS FLOOR TILE - TYPE 1
	STAIRCASE - SUPER TITANIUM FINISH
	GRANITE TILE FINISH
	300 X 600mm NON SLIP HOMOGENEOUS FLOOR TILE- TYPE 1
	300 X 600mm ROUGH TEXTURED FLOOR TILE
	300 X 600mm GLAZED WALL TILES TYPE 2
	PAINTED TEXTURE FINISH TYPE 2
	SUPER TITANIUM FINISH
	EXPOSED BRICK FINISH
	300 X 600mm GLAZED WALL TILES TYPE 3
	TERRA COTA HOLLOW BOX FINISH

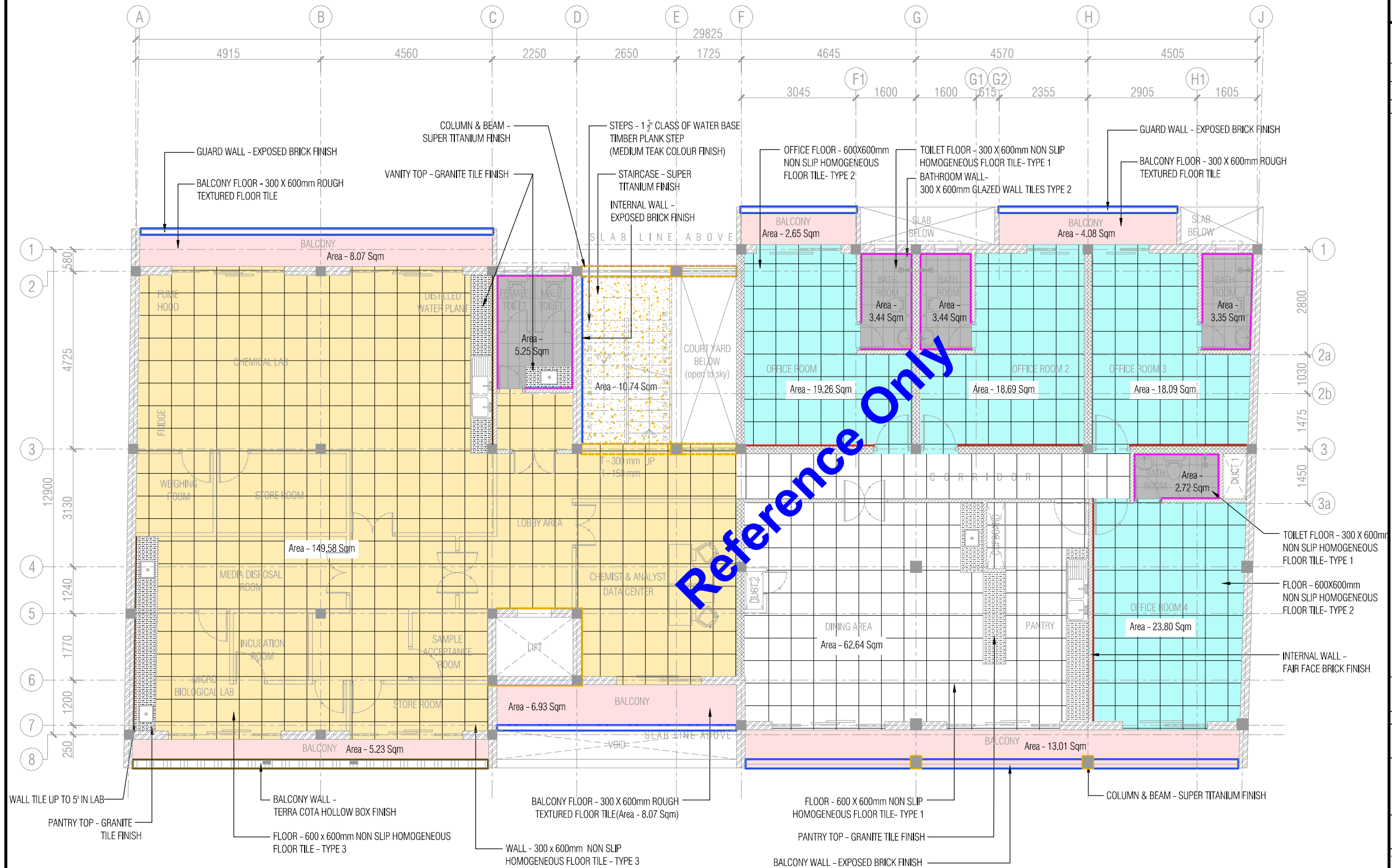
CLIENT : PROJECT DIRECTOR, IWWRMP

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

TITLE	:	FINISHING LAYOUT - FIRST FLOOR
-------	---	--------------------------------

SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	
Checked D.O.A	Mrs. MIHIRANI	Approved (D.G.M) -
Cad file		Scale - AS SHOWN
Sheet size	Drawing no.	Date - 03-07-2026
A3	74/EIRO/P1/AR-WD/14	Rev. No. -
		Sheet. No.-



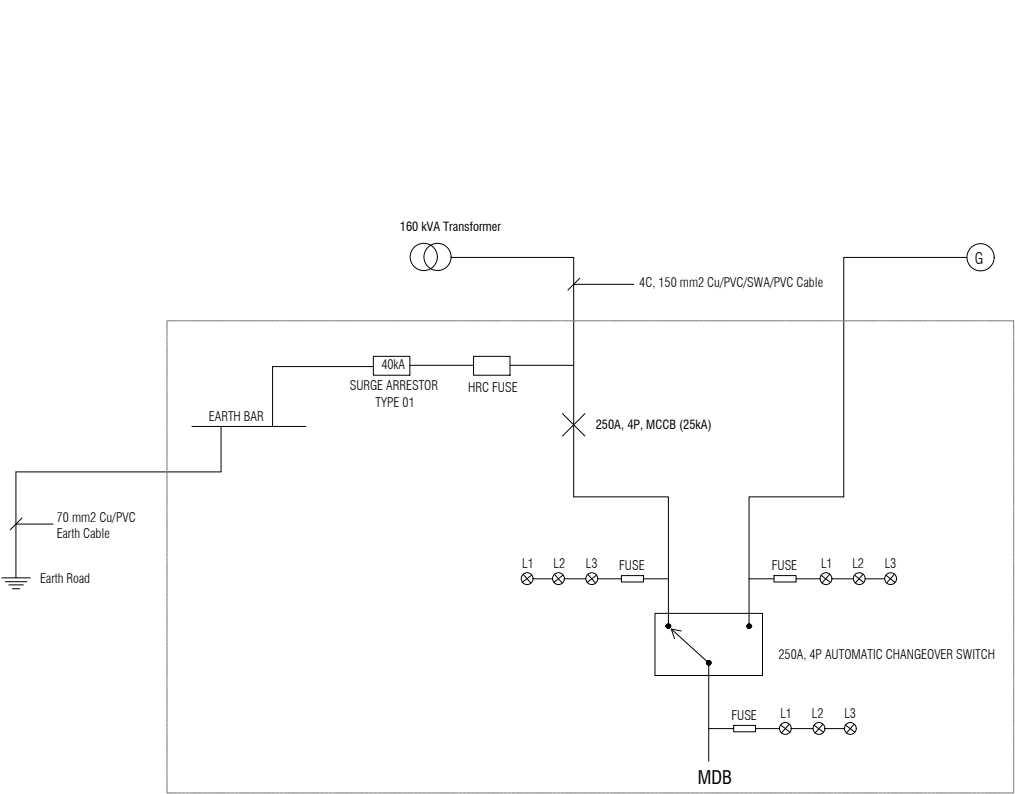
- INTERNAL WALLS - SMOOTH FINISH WITH 2 COAT OF EMULSION PAINT.
- EXTERNAL WALLS - ROUGH FINISH WITH 2 COAT OF WEATHER SHIELD PAINT

FINISHING LAYOUT - FIRST FLOOR

SCALE - 1:100

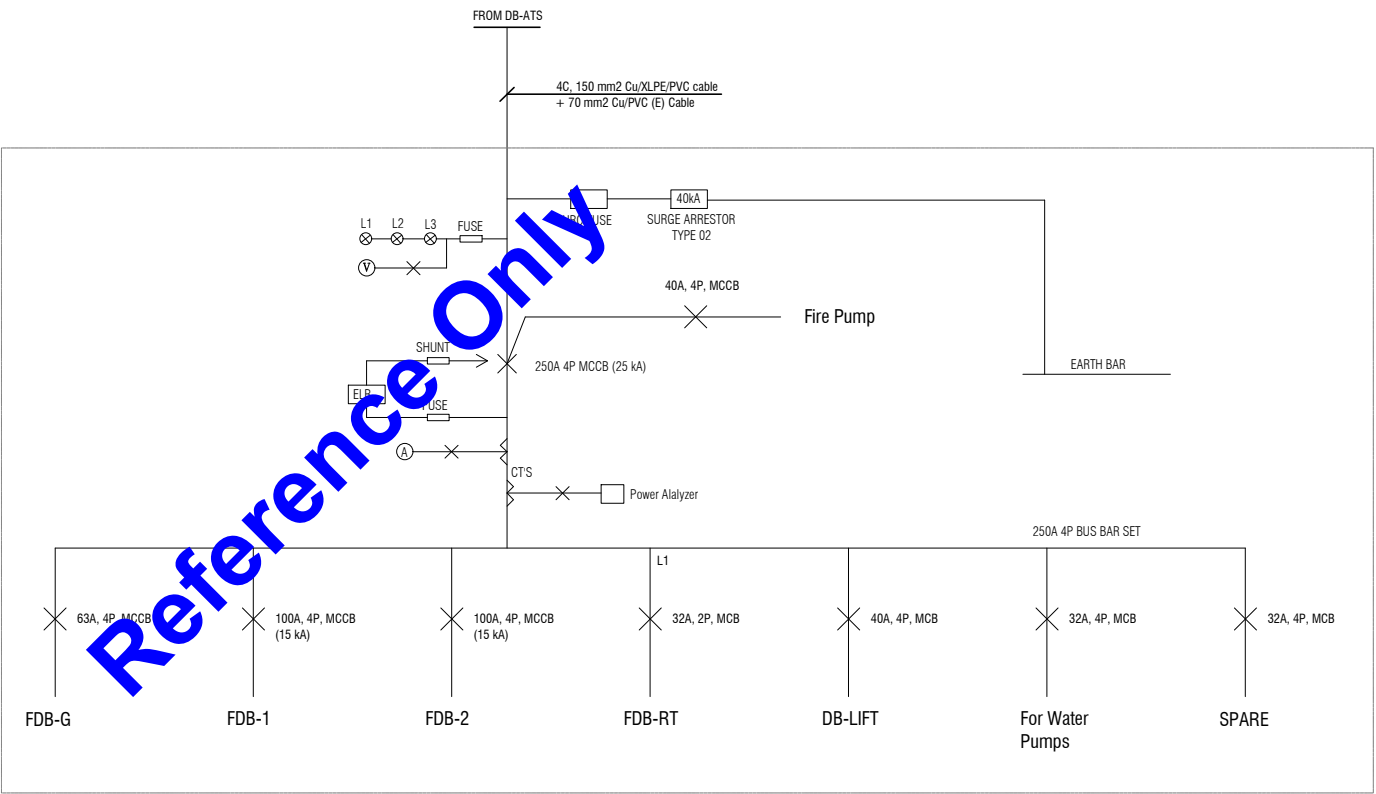
DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd



DB-ATS

Location : As Shown
Enclosure : Surface Mounted Metal Enclosure



MDB

Location : As Shown
Enclosure : Surface/Floor Mounted Metal Enclosure

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENTUNIT, IWWRMP.

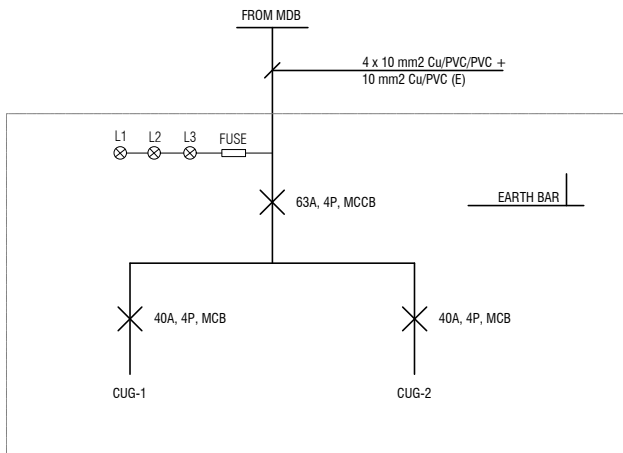
PROJECT : ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

TITLE : MAIN DISTRIBUTION BOARD (MDB)

 SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA.
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
+94 11 2867533 / +94 112862457 / +94 112863696
Fax : +94 11 2862457 / +94 112868001
E mail : mail@slrldc.lk
web : www.landdevelopment.lk

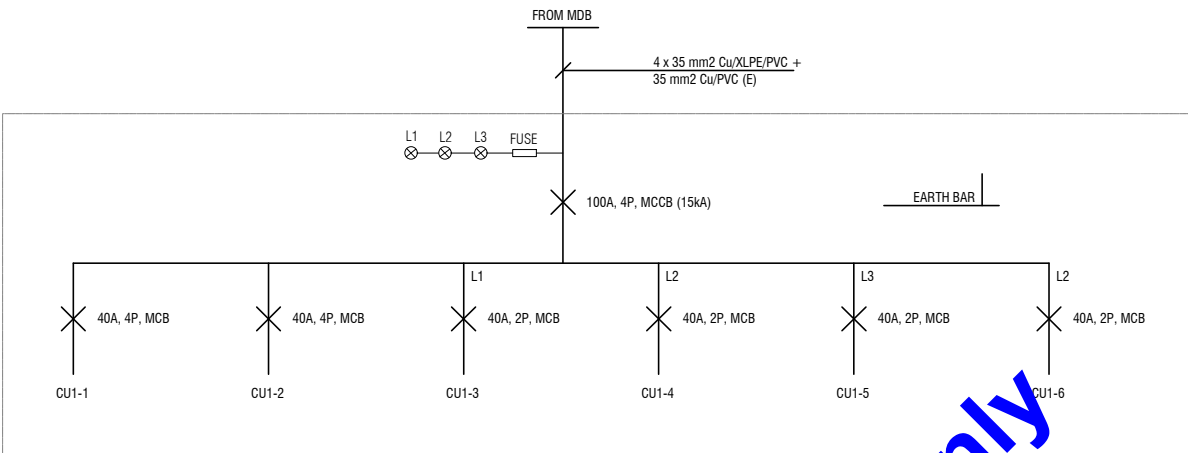
Project Architect	Mr. SUPUN	Recommended (A.G.M.)-	
Drawn	Mr. SANJEEWA	Approved (D.G.M.)-	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/E/01	Rev. No. -	
A3		Sheet. No.-	

Rev.	Date	Desd.	Description		Drawn	Chk'd	App'd



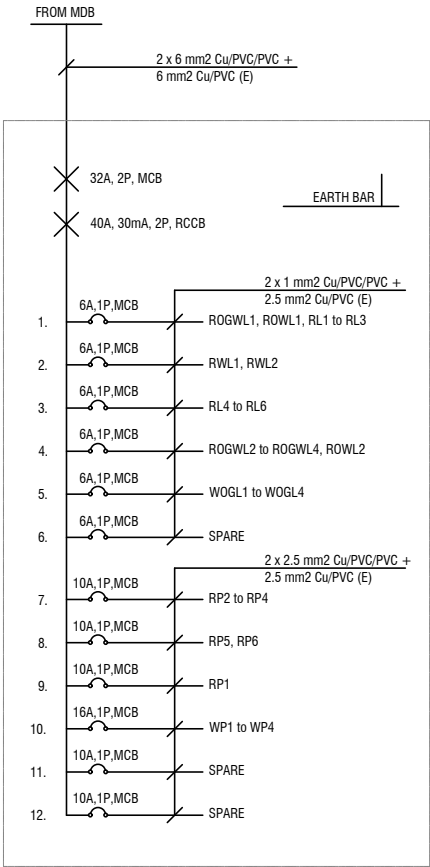
FDB-G

Location : As Shown
Enclosure : Surface Mounted Metal Enclosure



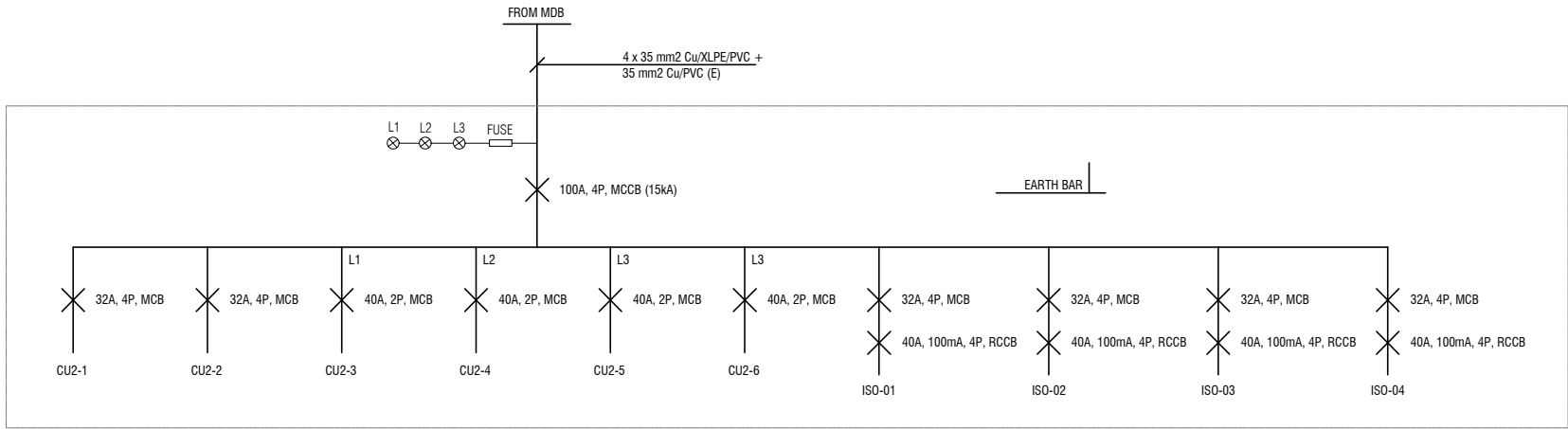
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Location : As Shown
Enclosure : Surface Mounted Metal Enclosure



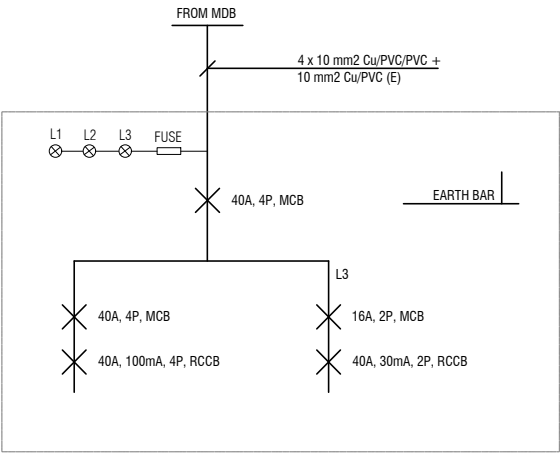
FDB-RT

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



FDB-2

Location : As Shown
Enclosure : Surface Mounted Metal Enclosure



DB-LIFT

Location : As Shown
Enclosure : Surface Mounted Metal Enclosure

Rev.	Date	Desd.	Description		Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENTUNIT, IWWRMP.

PROJECT : ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

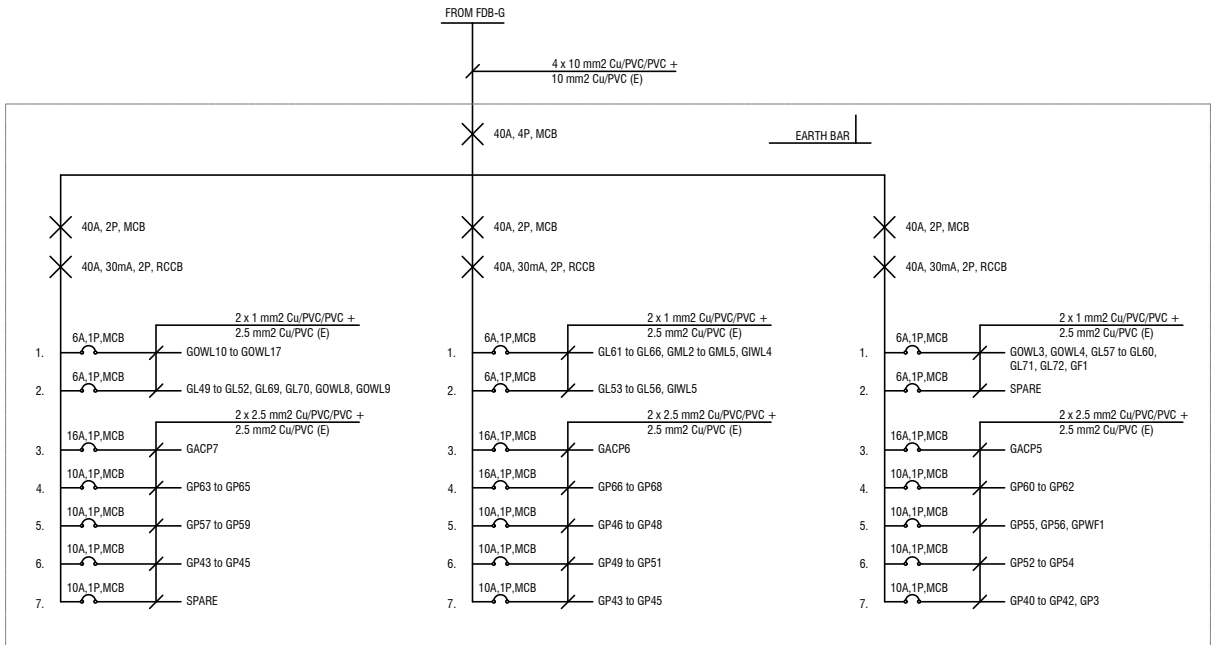
TITLE : FLOOR DISTRIBUTION BOARDS
(FDB'S)

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRIJAYAWARDENAPURA MAWATHA WELIKADA, RAJAGIRIYA.
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Project Architect	Mr. SUPUN	Recommended (A.G.M.) -	
Drawn	Mr. SANJEEWA	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size	Drawing no.	Rev. No. -	Sheet. No.-
A3	74/EIROJ/P1/E/02		

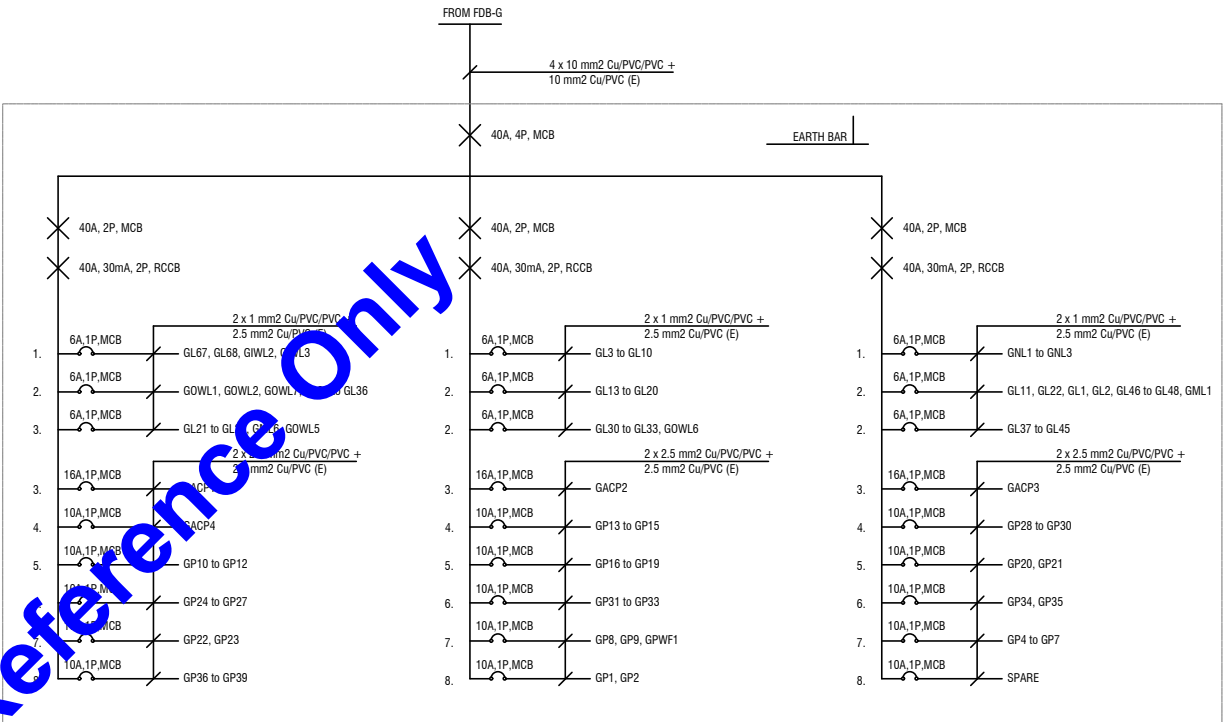
DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description		Drawn	Chk'd	App'd



CUG-1

Location : As Shown
Enclosure : Surface/Flush Mounted Metal Enclosure



CUG-2

Location : As Shown
Enclosure : Surface/Flush Mounted Metal Enclosure

Rev.	Date	Desd.	Description		Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENTUNIT, IWWRMP.

PROJECT : ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

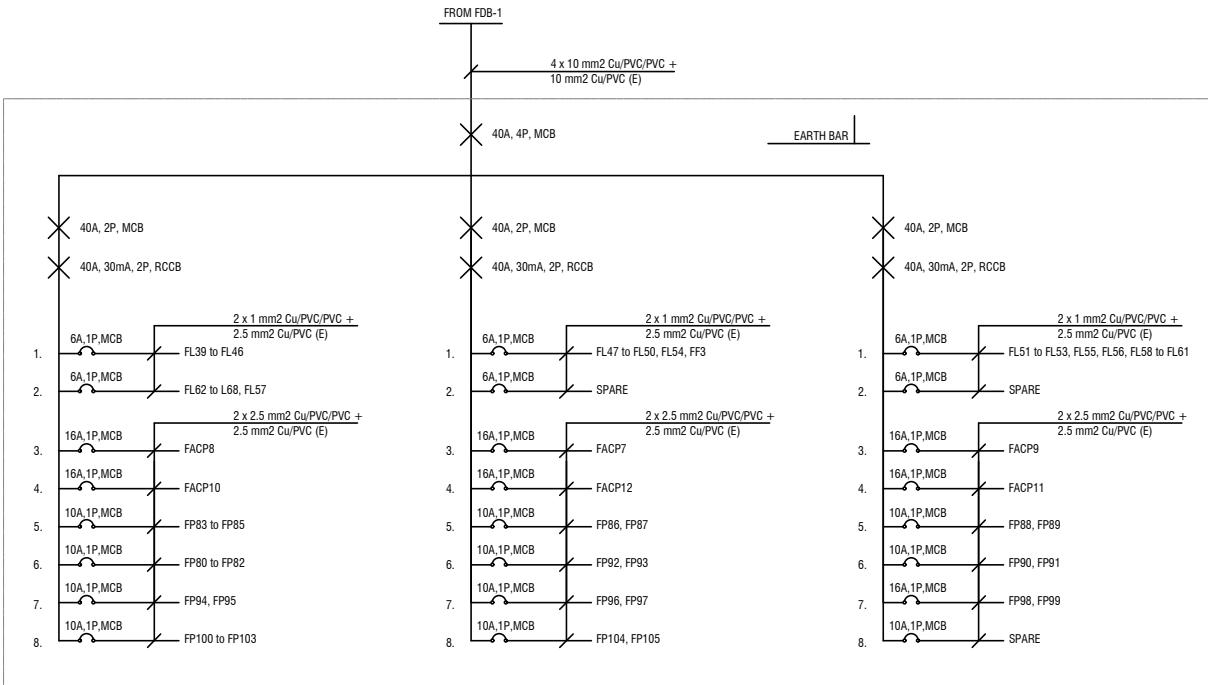
TITLE : CONSUMER UNITS (CU'S)
GROUND FLOOR

 SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAIWATHA, WELIKADA, RAJAGIRIYA.
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Project Architect	Mr. SUPUN	Recommended (A.G.M.)-	
Drawn	Mr. SANJEEWA	Approved (D.G.M.) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/E/03	Rev. No. -	
A3		Sheet. No.-	

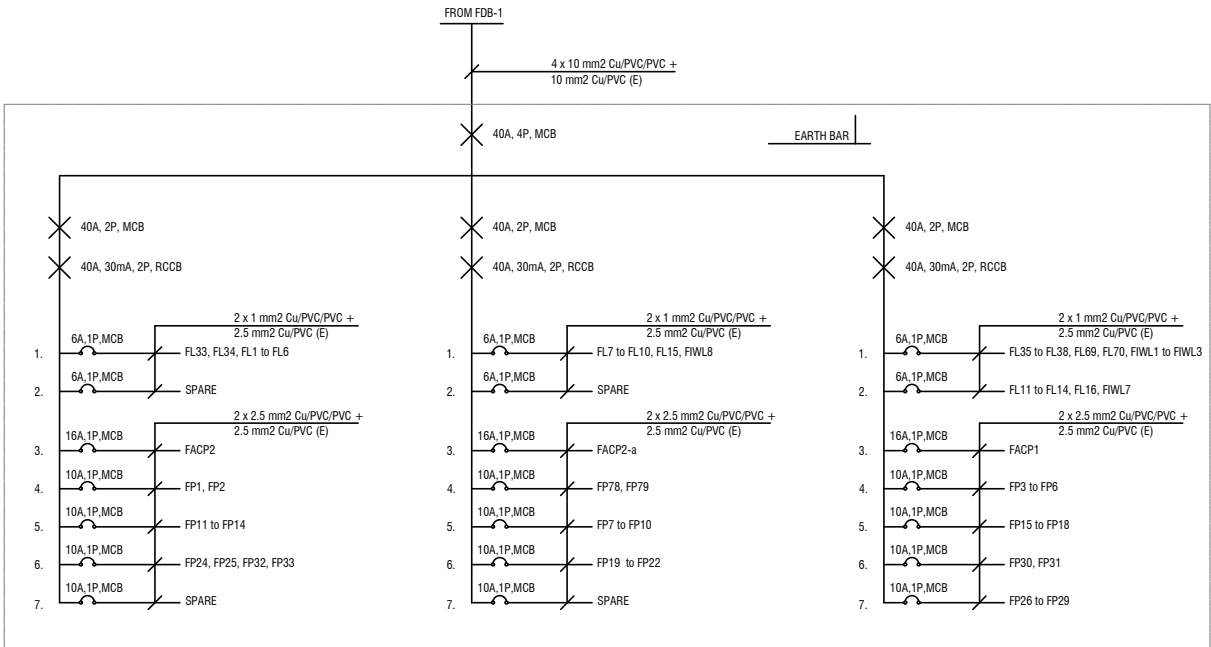
DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd	



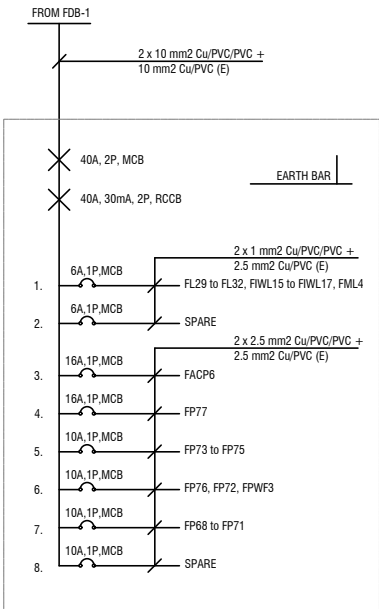
CU1-1

Location : As Shown
Enclosure : Surface/Flush Mounted Metal Enclosure



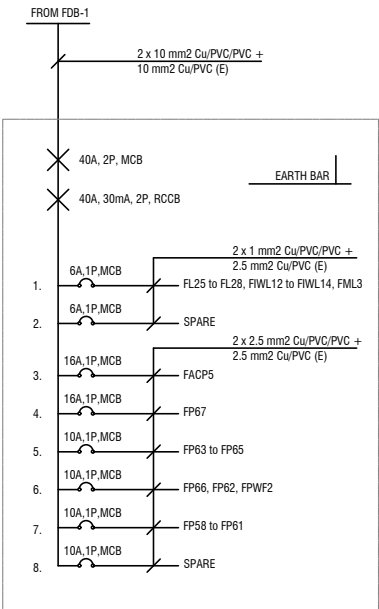
CU1-2

Location : As Shown
Enclosure : Surface/Flush Mounted Metal Enclosure



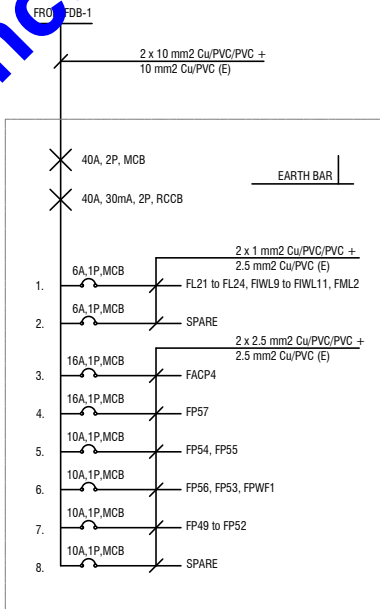
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Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



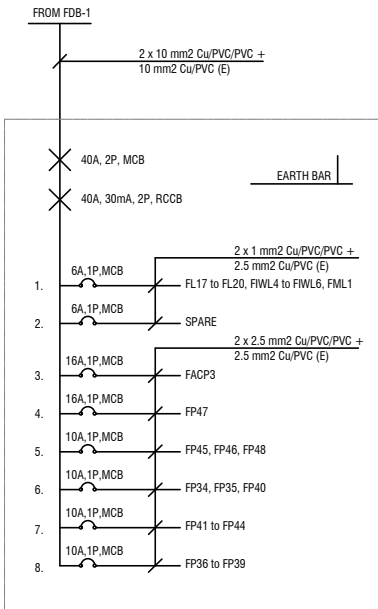
CU1-4

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



CU1-5

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



CU1-6

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd	

CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENTUNIT, IWWRMP.

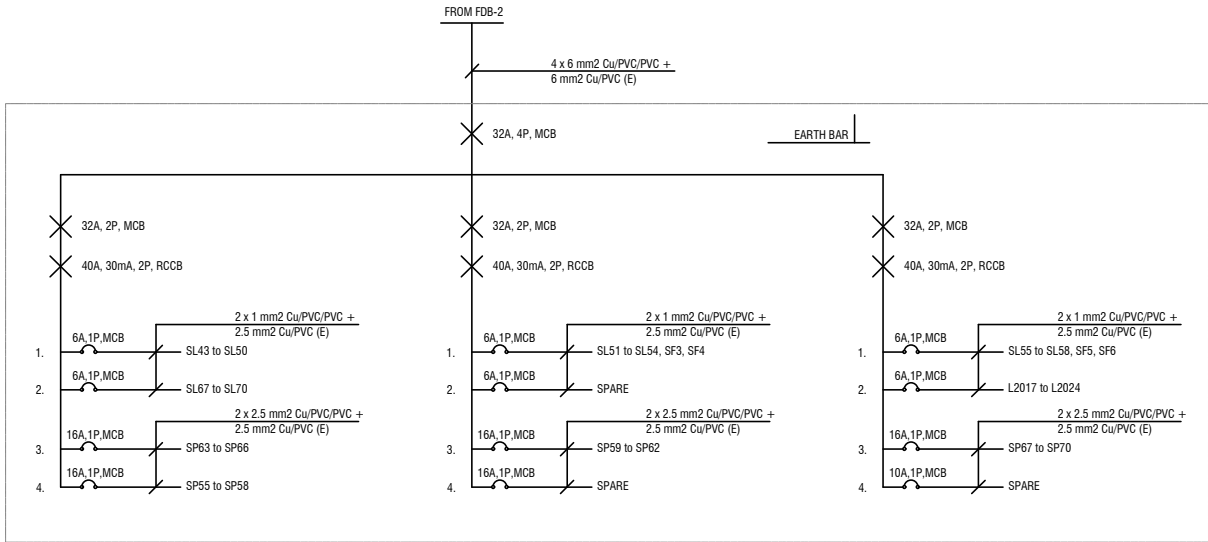
PROJECT : ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

TITLE : CONSUMER UNITS (CU'S)
FIRST FLOOR

SRI LANKA LAND DEVELOPMENT CORPORATION
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web : www.landdevelopment.lk

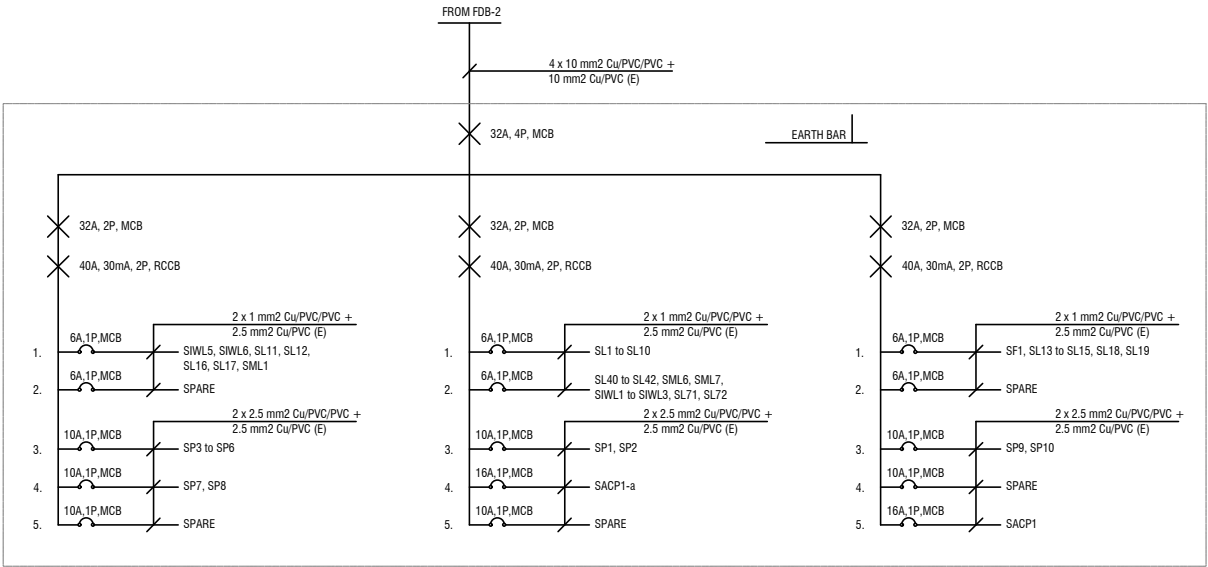
Project Architect	Mr. SUPUN	Recommended (A.G.M.)
Drawn	Mr. SANJEEWA	Approved (D.G.M.)
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/E/04	Rev. No. -
A3		Sheet. No.-

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd			



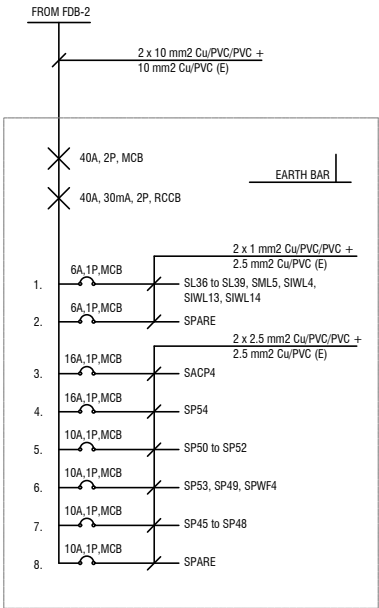
CU2-1

Location : As Shown
Enclosure : Surface/Flush Mounted Metal Enclosure



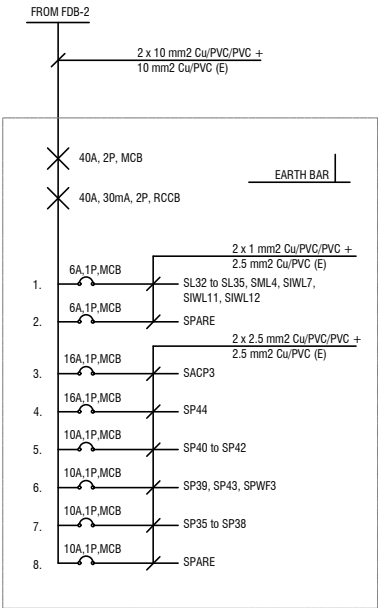
CU2-2

Location : As Shown
Enclosure : Surface/Flush Mounted Metal Enclosure



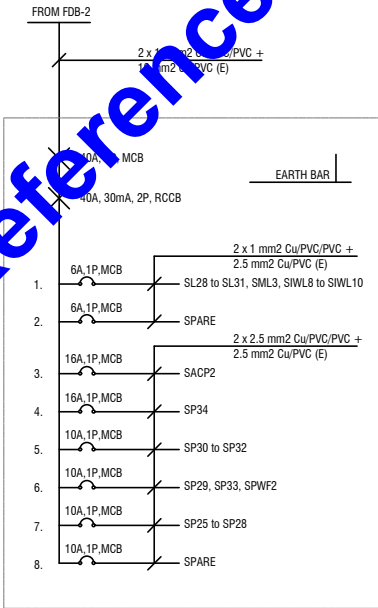
CU2-3

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



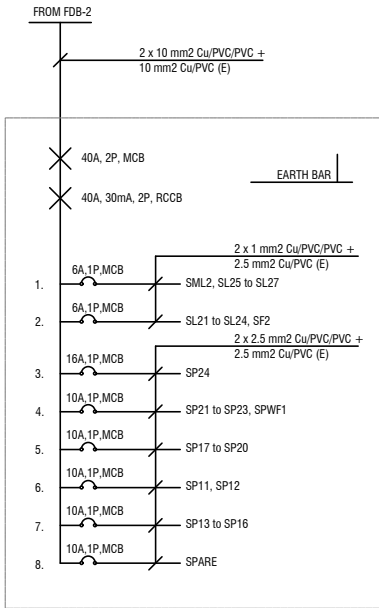
CU2-4

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



CU2-5

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure



CU2-6

Location : As Shown
Enclosure : Surface/Flush Mounted PVC Enclosure

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd			

CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENTUNIT, IWWRMP.

PROJECT : ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

TITLE : CONSUMER UNITS (CU'S)
SECOND FLOOR

SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr. SUPUN	Recommended (A.G.M.)
Drawn	Mr. SANJEEWA	Approved (D.G.M.)
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/E/05	Rev. No. -
		Sheet. No.-

LEGEND- LIGHTING & POWER		Nos.				
SYMBOL	DESCRIPTION	Ground	1st	2nd	Roof Terrace	Roof
	20W LED CEILING MOUNTED LIGHT FITTING TYPE 1	29	41	31	-	-
	20W LED CEILING MOUNTED LIGHT FITTING TYPE 2	06	-	08	-	-
	20W LED SOFFIT MOUNTED LIGHT FITTING	09	-	-	02	-
	8W LED SOFFIT MOUNTED LIGHT FITTING	13	18	18	04	-
	8W LED CEILING MOUNTED LIGHT FITTING TYPE 1	07	07	07	-	-
	8W LED CEILING MOUNTED LIGHT FITTING TYPE 2	08	-	-	-	-
	8W LED CEILING MOUNTED LIGHT FITTING TYPE 3	-	04	03	-	-
	8W RECESSED LED CEILING MOUNTED LIGHT FITTING	-	-	04	-	-
	24W PENDENT LIGHT	-	-	01	-	-
	MIRROR LIGHT	06	05	07	-	-
	8W INDOOR UP DOWN WALL LAMP TYPE 1	05	03	03	02	-
	5W INDOOR WALL LAMP TYPE 1	-	08	06	-	-
	5W INDOOR WALL LAMP TYPE 2	-	06	05	-	-
	20W OUTDOOR UP DOWN WALL LAMP TYPE 1 (IP68)	06	-	-	02	-
	20W OUTDOOR UP DOWN WALL LAMP TYPE 2 (IP68)	11	-	-	-	-
	TELEPHONE POINT	11	03	03	-	-
	DATA POINT	10	04	03	-	-
	VGA POINT	-	-	02	-	-
	NITCH LIGHT	03	-	-	-	-
	OUT DOOR GUARD WALL LAMP (IP68)	-	-	-	04	04
	FAN REGULATOR	01	03	06	-	-
	WALL FAN	02	03	04	-	-
	DISTRIBUTION BOARD	05	-	06	02	-
	FAN	01	03	07	-	-
	ONE WAY ONE GANG SWITCH	11	20	16	02	01
	ONE WAY TWO GANG SWITCH	05	04	05	01	-
	ONE WAY THREE GANG SWITCH	01	02	02	-	-
	ONE WAY FOUR GANG SWITCH	06	04	02	-	-
	TWO WAY ONE GANG SWITCH	-	10	06	-	-
	TWO WAY TWO GANG SWITCH	01	-	-	01	-
	TWO WAY THREE GANG SWITCH	-	04	03	-	-
	TWO WAY FOUR GANG SWITCH	-	01	01	-	-
	2 POLE SWITCH (for A/C)	06	11	05	-	-
	A/C POINT	07	13	08	-	-
	13A SOCKET OUTLET @ 2400mm FROM F.F.L (FOR A/C UNIT)	07	14	04	-	-
	2 POLE SWITCH (for GEEZER)	-	04	04	-	-
	13A SOCKET OUTLET	65	94	58	06	04
	13A SOCKET OUTLET @ 1200mm FROM F.F.L (FOR SHAVER)	01	04	04	-	-
	13A SOCKET OUTLET @ 900mm FROM F.F.L (FOR TELEVISION) (except reception area, living areas)	02	05	04	-	-
	13A SOCKET OUTLET @ 2100mm FROM F.F.L (FOR GEEZER)	-	04	04	-	-
	13A SOCKET OUTLET @ 2100mm FROM F.F.L (FOR WALL FAN)	-	03	04	-	-
	32A 4P ISOLATOR (FOR AC)	-	-	04	-	-

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd	

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd	

CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
LEGEND - LIGHTING, POWER,
DATA & TELEPHONE

 SRI LANKA LAND DEVELOPMENT CORPORATION
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Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIROJ/P1/E/06	Rev. No. -	Sheet. No.-

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

ABBREVIATIONS

- GL - GROUND FLOOR LIGHT POINT
- GIWL - GROUND FLOOR INDOOR WALL LAMP
- GOWL - GROUND FLOOR OUT DOOR WALL LAMP
- GML - GROUND FLOOR MIRROR LIGHT
- GNL - GROUND FLOOR NITCH LIGHT
- GF - GROUND FLOOR FAN
- GFR - GROUND FLOOR FAN REGULATOR
- GS - GROUND FLOOR SWITCH
- GACS - GROUND FLOOR AC SWITCH
- GAC - GROUND FLOOR AC
- FDB-G - FLOOR DISTRIBUTION BOARD AT GROUND
- CU G - CONSUMER UNIT AT GROUND FLOOR

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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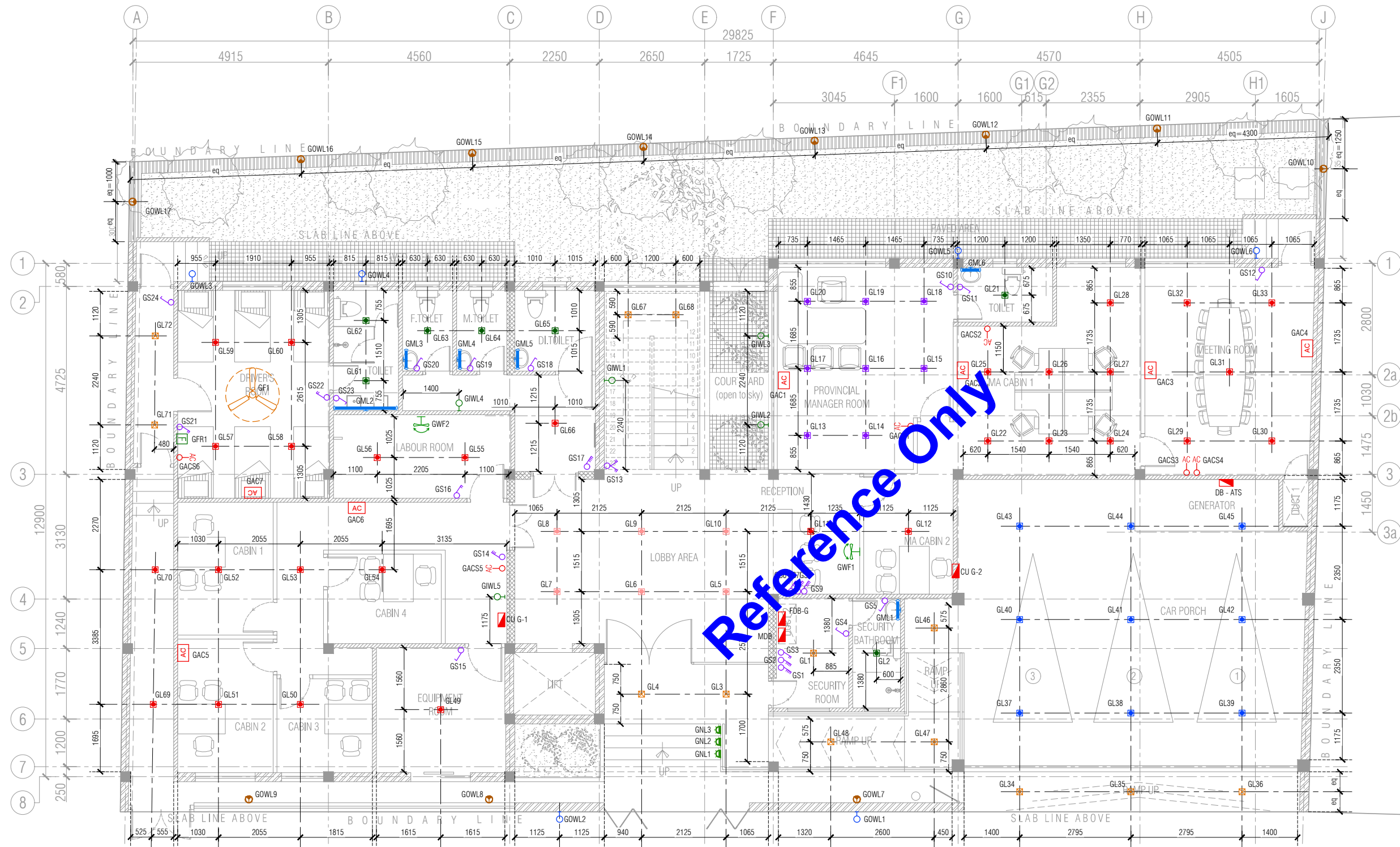
CLIENT : PROJECT DIRECTOR, IWWRM

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : LIGHTING LAYOUT - GROUND FLOOR

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Cad file		Scale - AS SHOWN Date - 03-07-2027
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Drawing no	74/EIROJ/P1/E/07	Sheet. No. -



LIGHTING LAYOUT - GROUND FLOOR

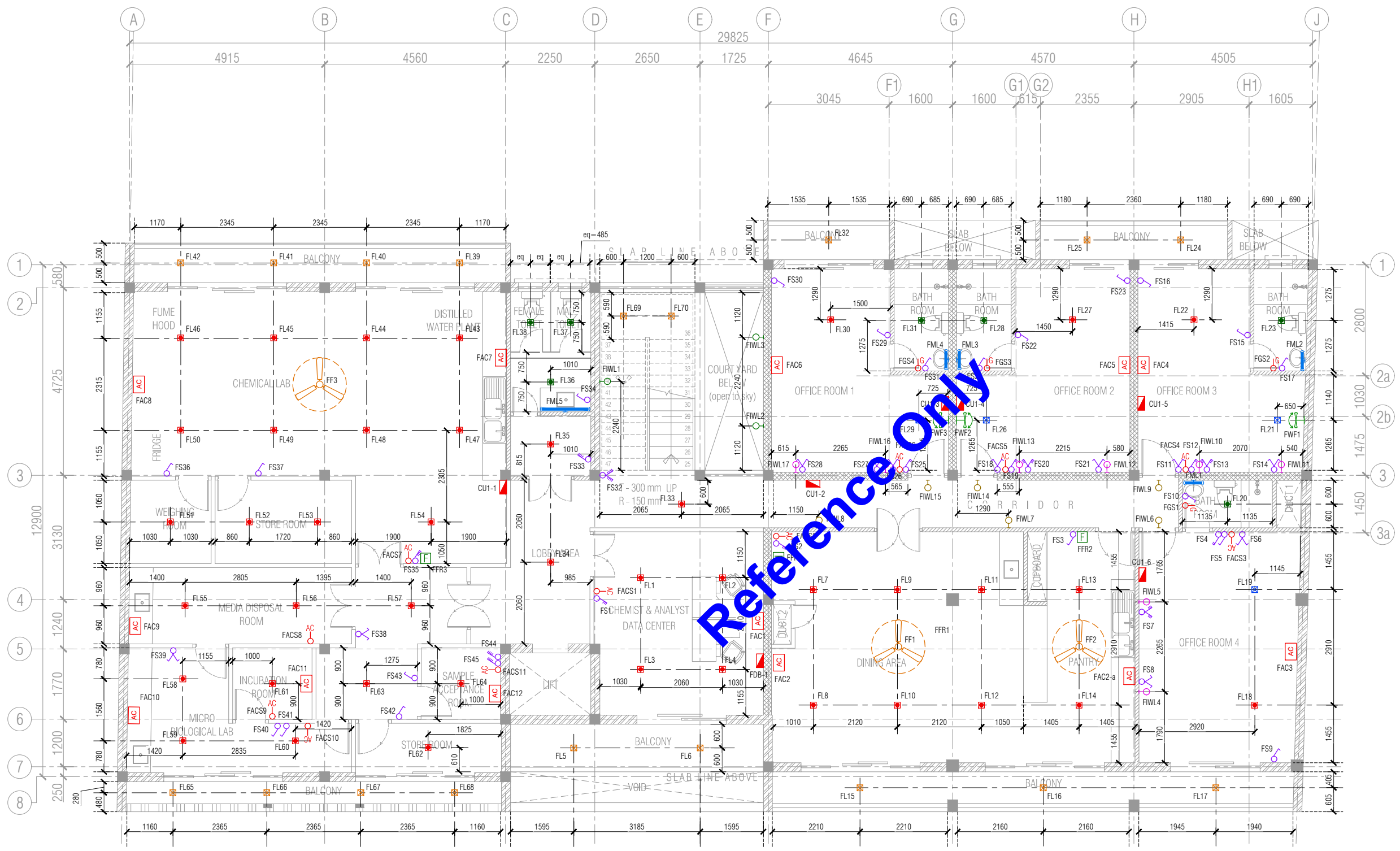
SCALE : 1:100

NOTE

- ALL SWITCHES ARE LOCATED IN +1350mm FROM F.F.L OTHERWISE STATED.

ABBREVIATIONS

- FL - FIRST FLOOR LIGHT POINT
FIWL - FIRST FLOOR INDOOR WALL LAMP
FML - FIRST FLOOR MIRROR LIGHT
FF - FIRST FLOOR FAN
FFR - FIRST FLOOR FAN REGULATOR
FWF - FIRST FLOOR WALL FAN
FS - FIRST FLOOR SWITCH
FACS - FIRST FLOOR AC SWITCH
FAC - FIRST FLOOR AC
FGS - FIRST FLOOR GEEZER SWITCH
FBD-1 - FLOOR DISTRIBUTION BOARD AT FIRST FLOOR
CU1 - CONSUMER UNIT AT FIRST FLOOR



LIGHTING LAYOUT - FIRST FLOOR

SCALE - 1:100

NOTE

- ALL SWITCHES ARE LOCATED IN +1350mm FROM F.F.L OTHERWISE STATED.

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
CLIENT : PROJECT DIRECTOR, IWWRMP						
PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD						
TITLE : LIGHTING LAYOUT - FIRST FLOOR						
SRI LANKA LAND DEVELOPMENT CORPORATION NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRYA T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 / +94 11 2867533 / +94 112863457 / +94 112863696 Fax : +94 11 2862457 / +94 112868001 E mail : mail@slrldc.lk web : www.landdevelopment.lk						
Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-				
Drawn	Mr.THILANGA	Approved (D.G.M) -				
Checked D.O.A	Mrs. MIHIRANI					
Cad file		Scale - AS SHOWN	Date - 03-07-2027			
Sheet size	Drawing no. A3	74/EIROJ/P1/E/08	Rev. No. -	Sheet. No.-		

ABBREVIATIONS

GP - GROUND FLOOR POWER POINT
GACP - GROUND FLOOR AC POWER POINT
GDP - GROUND FLOOR DATA POINT
GT - GROUND FLOOR TELEPHONE POINT

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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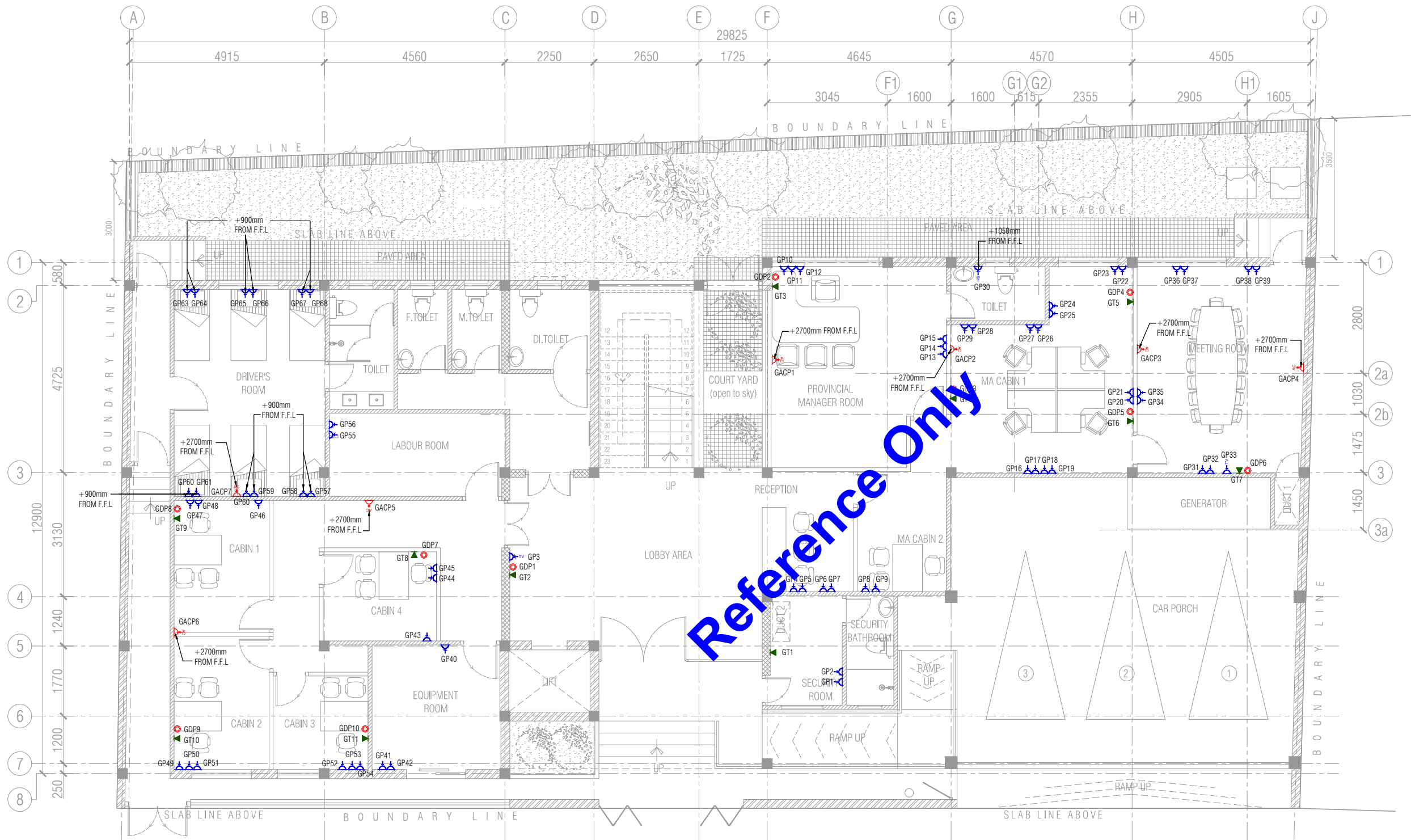
CLIENT :
PROJECT DIRECTOR, IWWRP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
POWER, DATA & TELEPHONE LAYOUT -
GROUND FLOOR

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Cad file		Scale - AS SHOWN Date - 03-07-2027
Sheet size	Drawing no.	Rev. No. -
A3	74/EIROJ/P1/E/12	Sheet. No.-



POWER, DATA & TELEPHONE LAYOUT - GROUND FLOOR

SCALE - 1:100

NOTE

- ALL POWER SOCKETS ARE LOCATED IN +500mm FROM F.F.L OTHERWISE STATED.

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

ABBREVIATIONS

FP - FIRST FLOOR POWER POINT
FACP - FIRST FLOOR AC POWER POINT
FDP - FIRST FLOOR DATA POINT
FT - FIRST FLOOR TELEPHONE POINT
FPWF - FIRST FLOOR POWER POINT FOR WALL FAN

Rev. Date Desd. Description Drawn Chk'd App'd

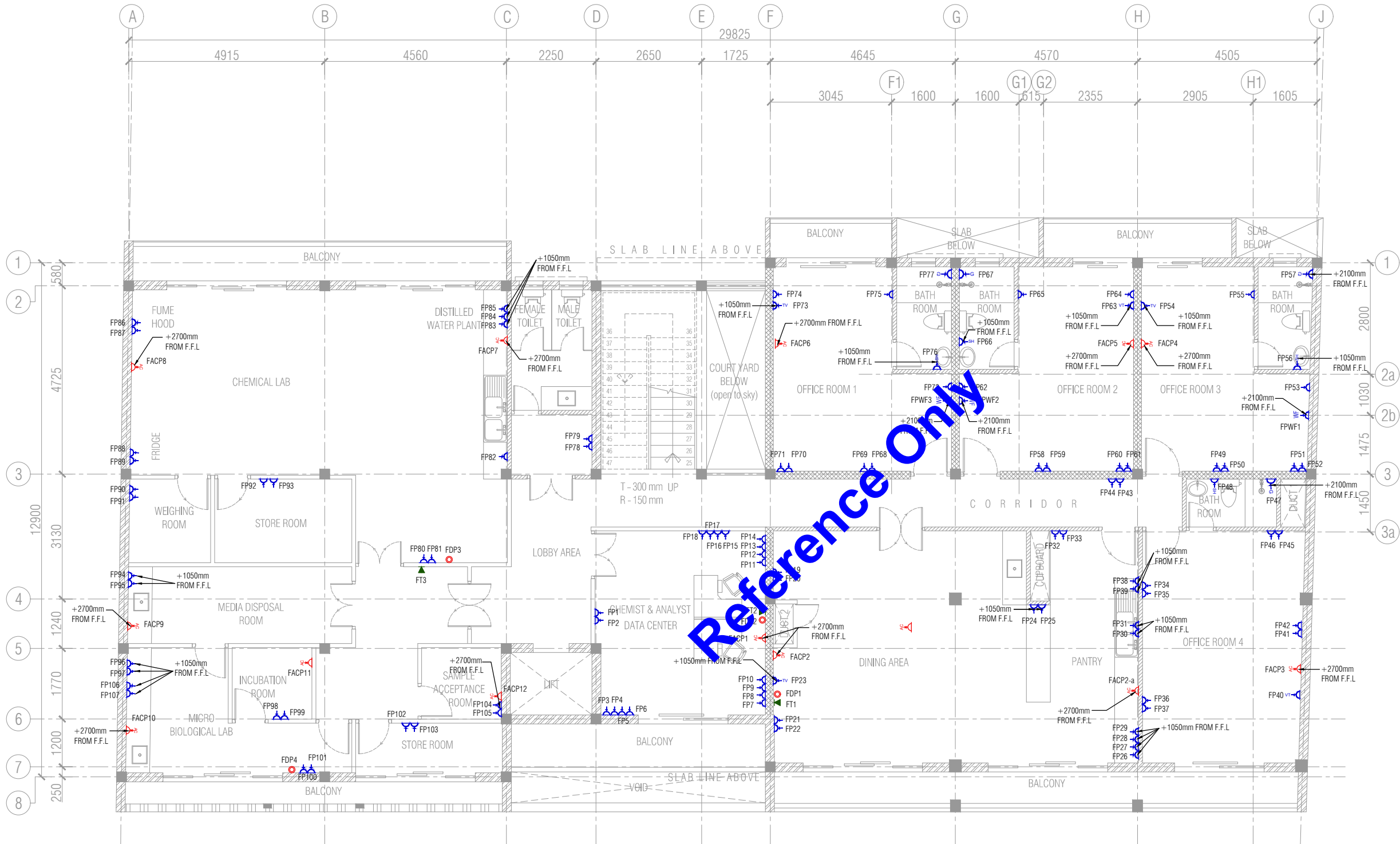
CLIENT : PROJECT DIRECTOR, IWWRP

PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE : POWER, DATA & TELEPHONE LAYOUT -
FIRST FLOOR

SRI LANKA LAND DEVELOPMENT CORPORATION
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Drawn	Mr. THILANGA	Approved (D.G.M)	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2027
Sheet size	Drawing no.	Rev. No. -	
A3	74/EIROJ/P1/E/13	Sheet. No. -	

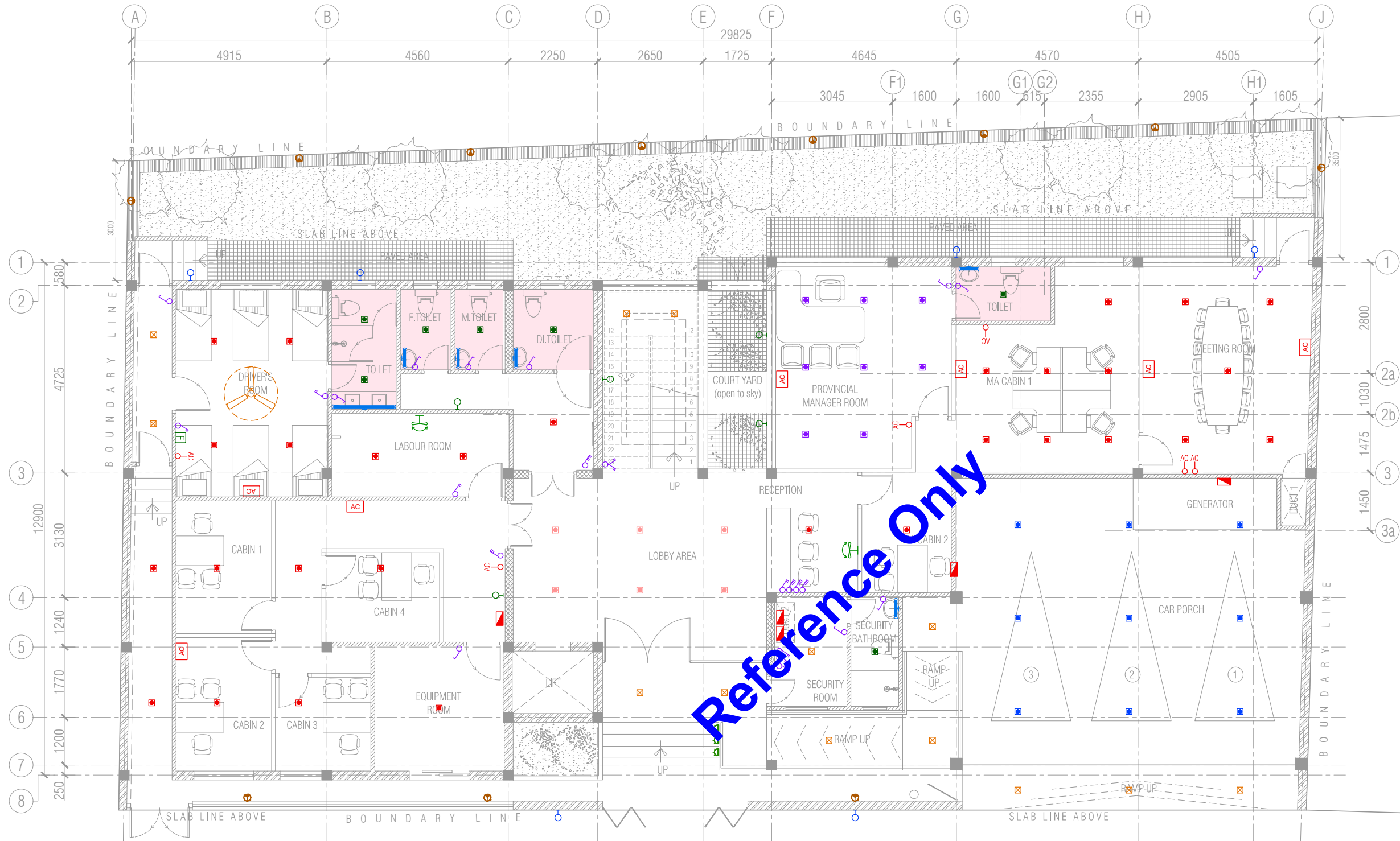


POWER, DATA & TELEPHONE LAYOUT - FIRST FLOOR

SCALE - 1:100

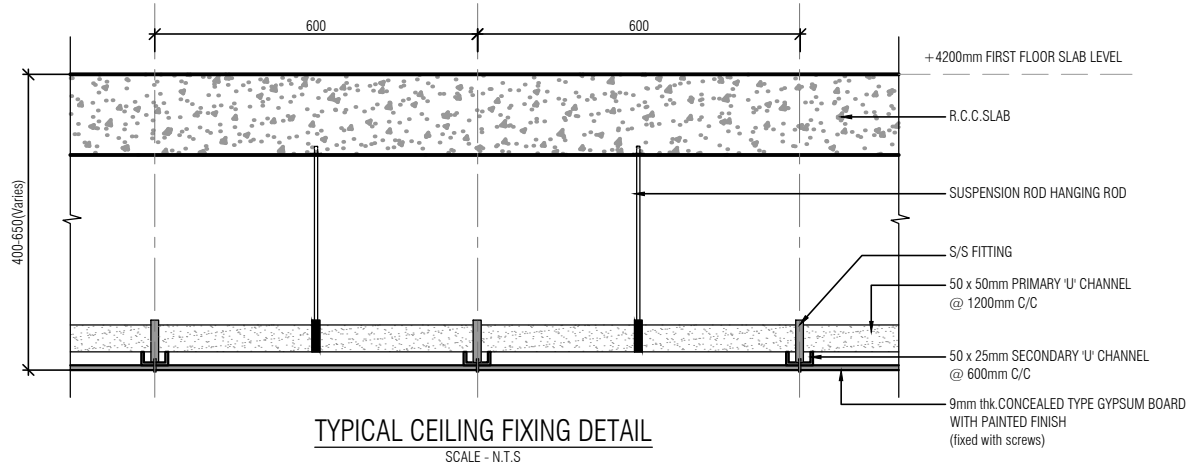
NOTE

- ALL POWER SOCKETS ARE LOCATED IN +500mm FROM F.F.L OTHERWISE STATED.



CEILING LAYOUT - GROUND FLOOR
SCALE - 1:100

LEGEND - CEILING	
SYMBOL	DESCRIPTION
	CONCEALED TYPE GYPSUM BOARD CEILING



TYPICAL CEILING FIXING DETAIL
SCALE - N.T.S

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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CLIENT :
PROJECT DIRECTOR, IWWRP

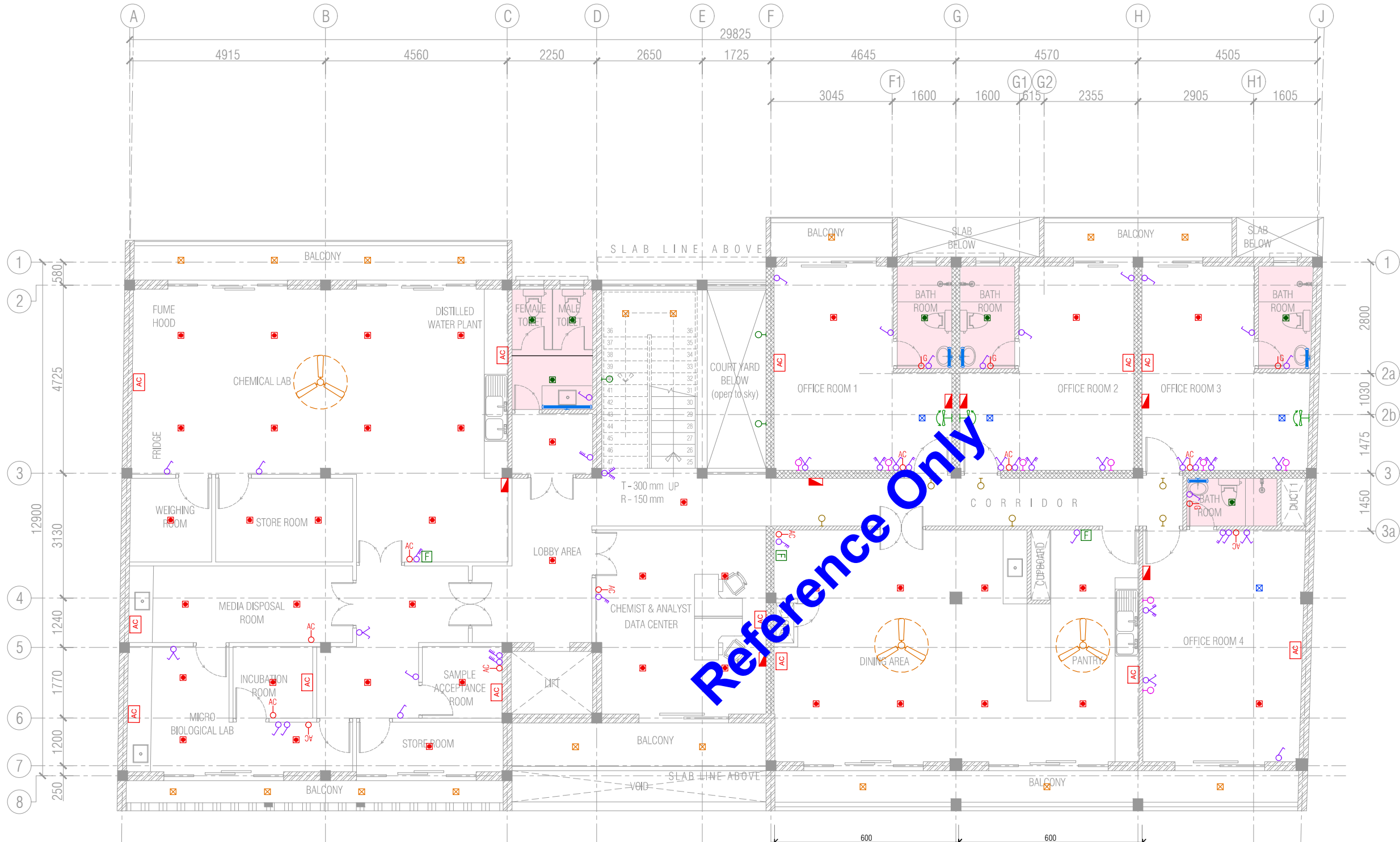
PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
CEILING LAYOUT - GROUND FLOOR

SRI LANKA LAND DEVELOPMENT CORPORATION
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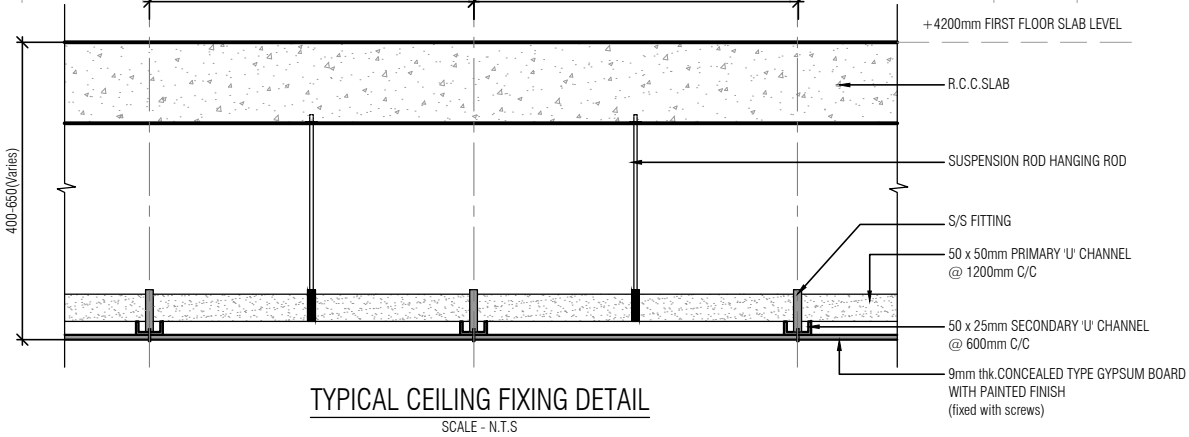
Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
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Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN
Sheet size	Drawing no. 74/EIROJ/P1/E/17	Date - 03-07-2027
A3		Rev. No. -
		Sheet. No.-

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd



CEILING LAYOUT - FIRST FLOOR
SCALE - 1:100

LEGEND - CEILING	
SYMBOL	DESCRIPTION
	CONCEALED TYPE GYPSUM BOARD CEILING



TYPICAL CEILING FIXING DETAIL
SCALE - N.T.S

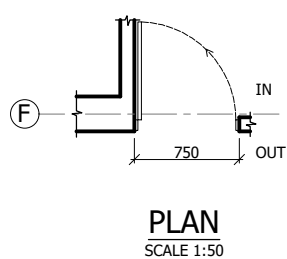
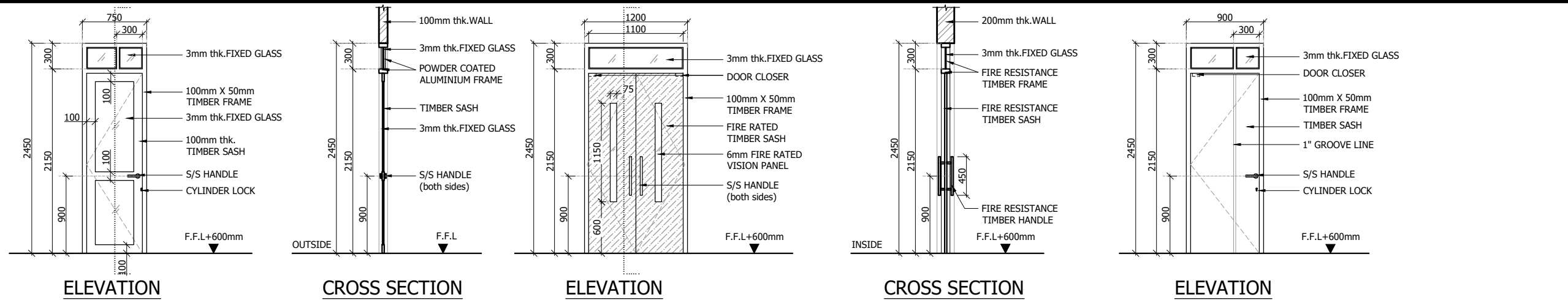
CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

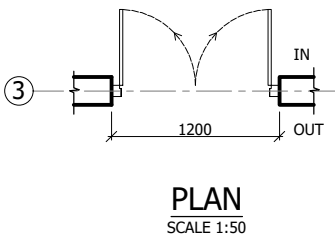
TITLE : CEILING LAYOUT - FIRST FLOOR

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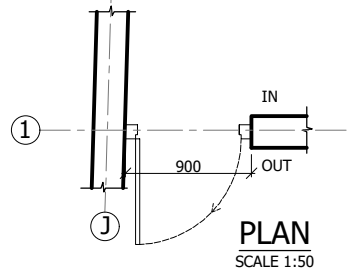
Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-	
Drawn	Mr.THILANGA	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2027
Sheet size A3	Drawing no. 74/EIROJ/P1/E/18	Rev. No. -	Sheet. No. -



- SPECIFICATION**
- CLASS 1 TREATED TIMBER FRAME.
 - 3mm CLEAR GLASS FIXED PANEL.
 - S/S DOOR HANDLE & DOOR LOCK(to be selected).
 - APPROXIMATE DOOR PANEL SIZE 650mm X 2100mm, 25mm Thickness.



- SPECIFICATION**
- CLASS 1 TREATED TIMBER FRAME.
 - MEDIUM TEAK COLOR WATER BASED MINIMUM FD 30 FIRE RATED SOLID TIMBER DOOR.
 - 6mm FIRE RATED VISION PANEL.
 - 3mm CLEAR GLASS FIXED TOP PANEL.
 - S/S SELF DOOR CLOSER, MINIMUM 4 HINGES, CERTIFIED FIRE RATED DOOR LOCK.
 - FIRE DOOR REQUIRES SMOKE SEAL.
 - APPROXIMATE DOOR PANEL SIZE 550mm X 2100mm, 44mm(min) Thickness.
 - INTUMESCENT STRIPS USED TO SEAL THE GAPS BETWEEN DOOR & FRAME.

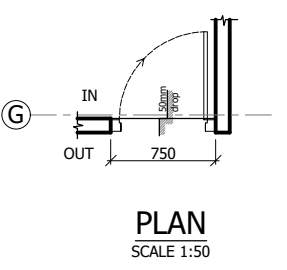
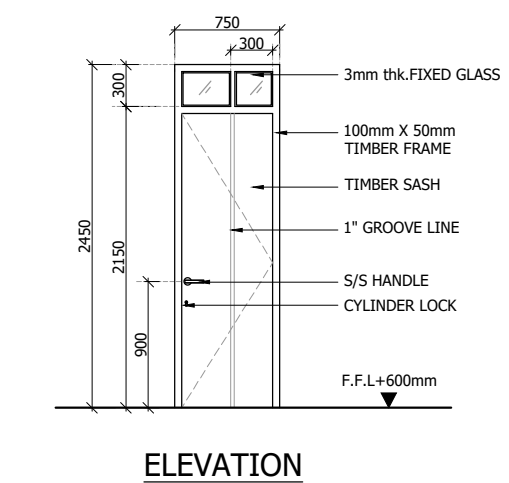


- SPECIFICATION**
- CLASS 1 TREATED TIMBER FRAME.
 - MEDIUM TEAK COLOR WATER BASED SOLID TIMBER DOOR.
 - 3mm CLEAR GLASS FIXED TOP PANEL.
 - S/S DOOR HANDLE & DOOR LOCK(to be selected).
 - APPROXIMATE DOOR PANEL SIZE 800mm X 2100mm, 37.5mm Thickness.

DOOR TYPE D1 - 01 No.

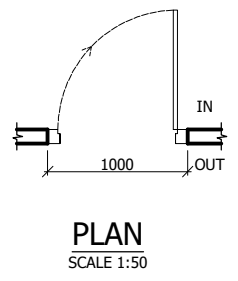
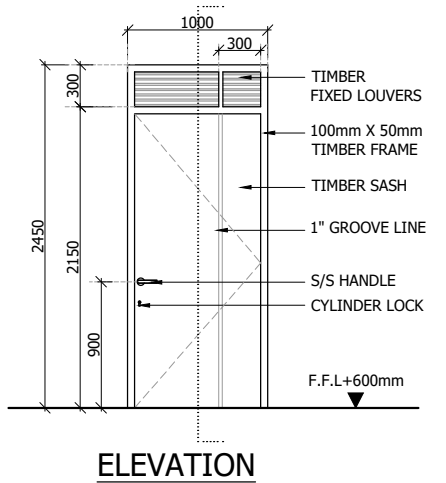
DOOR TYPE D2 - 03 Nos.

DOOR TYPE D3 - 03 Nos.



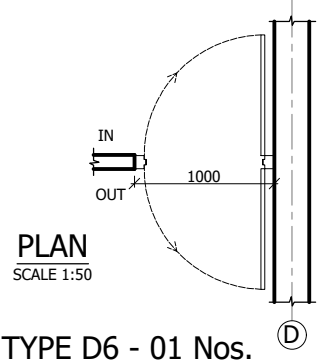
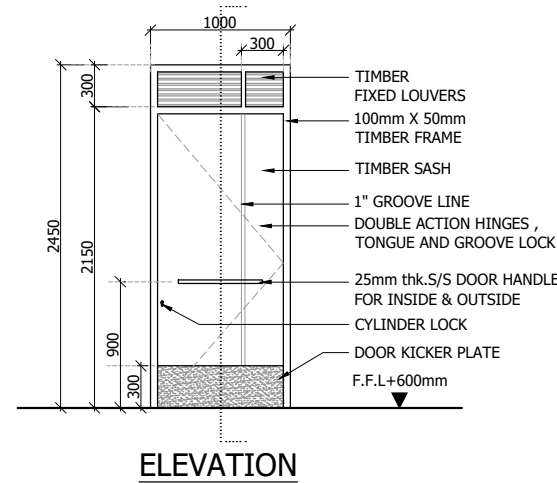
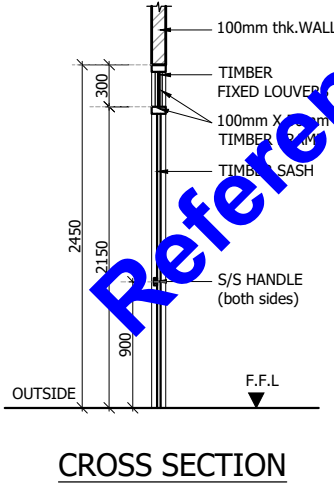
DOOR TYPE D4 - 15 Nos.

- SPECIFICATION**
- CLASS 1 TREATED TIMBER FRAME.
 - MEDIUM TEAK COLOR WATER BASED SOLID TIMBER DOOR.
 - 3mm CLEAR GLASS FIXED TOP PANEL.
 - S/S DOOR HANDLE & DOOR LOCK(to be selected).
 - APPROXIMATE DOOR PANEL SIZE 650mm X 2100mm, 37.5mm Thickness.



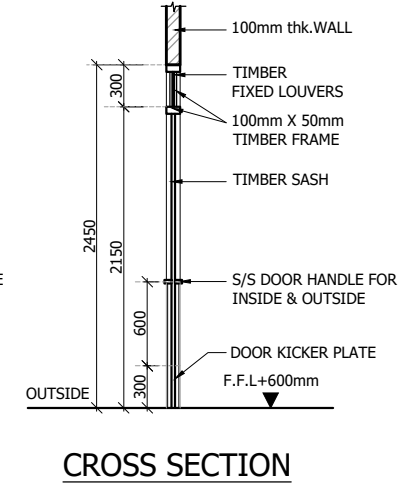
DOOR TYPE D5 - 03 Nos.

- SPECIFICATION**
- CLASS 1 TREATED TIMBER FRAME.
 - MEDIUM TEAK COLOR WATER BASED SOLID TIMBER DOOR.
 - TIMBER FIXED LOUVER PANEL.
 - S/S DOOR HANDLE & DOOR LOCK(to be selected).
 - APPROXIMATE DOOR PANEL SIZE 875mm X 2100mm, 37.5mm Thickness.



DOOR TYPE D6 - 01 Nos.

- SPECIFICATION**
- CLASS 1 TREATED TIMBER FRAME.
 - MEDIUM TEAK COLOR WATER BASED SOLID TIMBER DOOR.
 - TIMBER FIXED LOUVER PANEL.
 - 25mm thk. S/S DOOR HANDLE & DOOR LOCK(both side)(to be selected).
 - APPROXIMATE DOOR PANEL SIZE 950mm X 2125mm, 37.5mm Thickness.



EIROJ

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

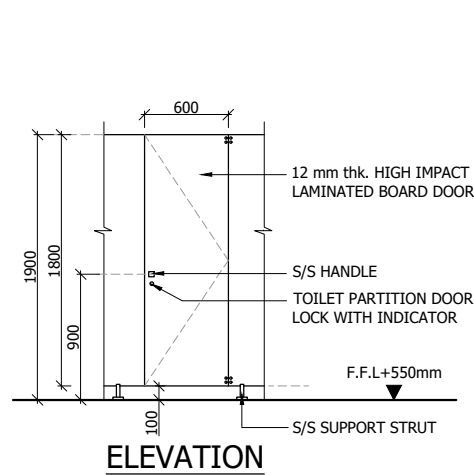
CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

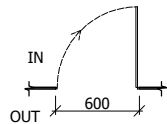
TITLE :
DETAILS OF DOORS & WINDOWS

SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
Drawn	Mr.THILANGA	Approved (D.G.M) :	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIROJ/P1/AR-WD/18	Rev. No. -	Sheet. No.-



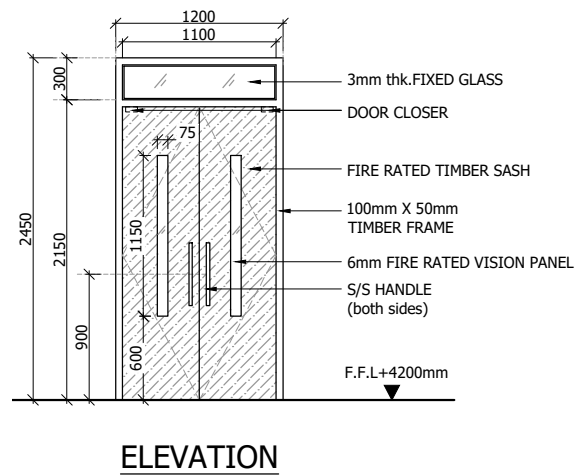
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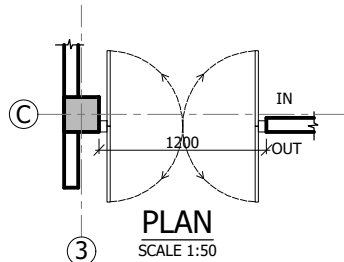
PLAN
SCALE 1:50

DOOR TYPE D7 - 07 Nos.

TOILET PARTITION DOOR



ELEVATION

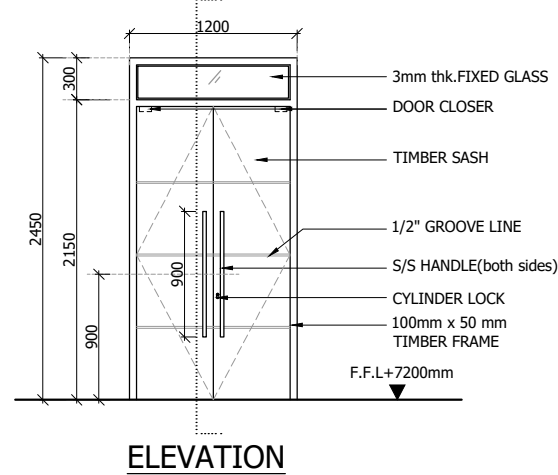


PLAN
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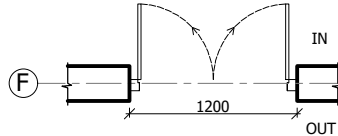
DOOR TYPE D8- 02 Nos.

SPECIFICATION

- CLASS 1 TREATED TIMBER FRAME.
- MEDIUM TEAK COLOR WATER BASED MINIMUM FD 30 FIRE RATED DOUBLE SWING SOLID TIMBER DOOR.
- 6mm FIRE RATED VISION PANEL.
- 3mm CLEAR GLASS FIXED TOP PANEL.
- S/S SELF DOUBLE ACTION DOOR CLOSER, MINIMUM DOUBLE ACTION 4 HINGES, CERTIFIED FIRE RATED DOOR LOCK.
- FIRE DOOR REQUIRES SMOKE SEAL.
- APPROXIMATE DOOR PANEL SIZE 550mm X 2100mm, 44mm(min) Thickness.
- INTUMESCENT STRIPS USED TO SEAL THE GAPS BETWEEN DOOR & FRAME.



ELEVATION

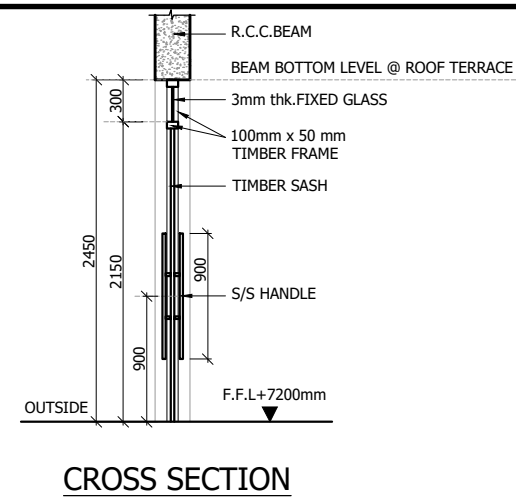


PLAN
SCALE 1:50

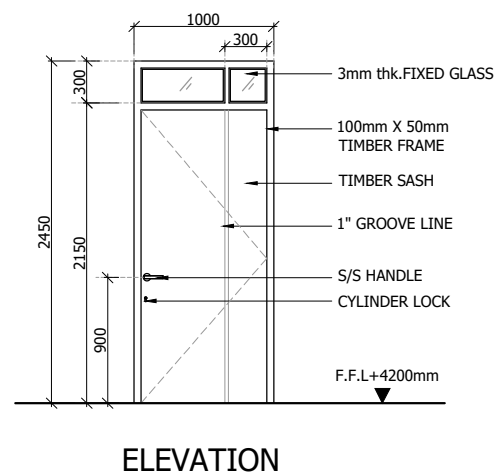
DOOR TYPE D10 - 01 No.

SPECIFICATION

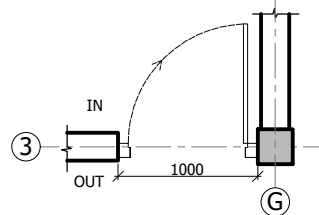
- CLASS 1 TREATED TIMBER FRAME.
- MEDIUM TEAK COLOR WATER BASED DOOR FRAME.
- 3mm CLEAR GLASS FIXED TOP PANEL.
- S/S DOOR HANDLE & DOOR LOCK(to be selected).
- APPROXIMATE DOOR PANEL SIZE 550mm X 2100mm, 37.5mm Thickness.



CROSS SECTION

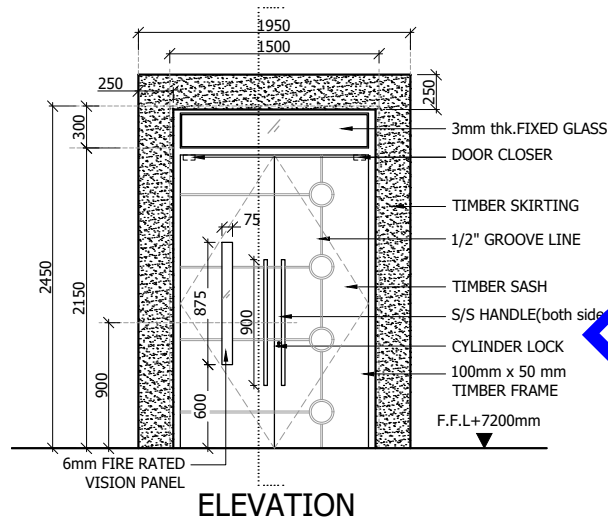


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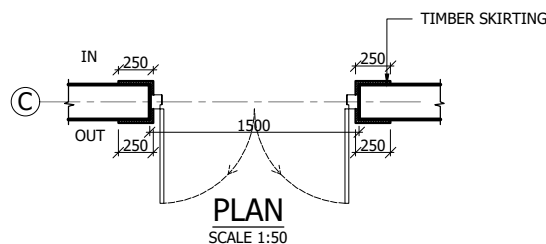


PLAN
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DOOR TYPE D9 - 12 Nos.



ELEVATION

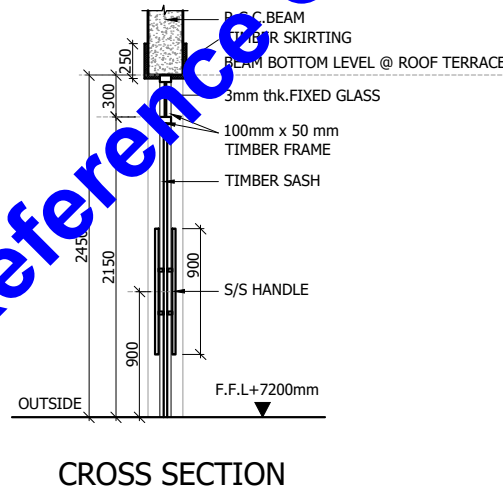


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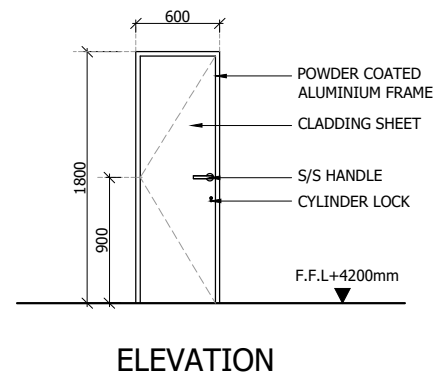
DOOR TYPE D11 - 01 No.

SPECIFICATION

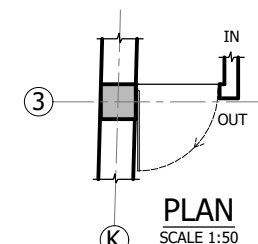
- CLASS 1 TREATED TIMBER FRAME.
- MEDIUM TEAK COLOR WATER BASED DOOR FRAME.
- MEDIUM TEAK COLOR WATER BASED MINIMUM FD 30 FIRE RATED SOLID TIMBER DOOR.
- 6mm FIRE RATED VISION PANEL.
- 3mm CLEAR GLASS FIXED TOP PANEL.
- S/S SELF DOOR CLOSER, MINIMUM 4 HINGES, CERTIFIED FIRE RATED DOOR LOCK.
- FIRE DOOR REQUIRES SMOKE SEAL.
- APPROXIMATE DOOR PANEL SIZE 675mm X 2100mm, 44mm(min) Thickness.
- INTUMESCENT STRIPS USED TO SEAL THE GAPS BETWEEN DOOR & FRAME.



CROSS SECTION



ELEVATION



PLAN
SCALE 1:50

DOOR TYPE D12 - 04 Nos.

SPECIFICATION

- POWDER COATED ALUMINIUM DOOR FRAME.
- POWDER COATED ALUMINIUM DOOR PANEL.
- S/S DOOR HANDLE & DOOR LOCK(to be selected).
- APPROXIMATE DOOR PANEL SIZE 550mm X 1775mm, 5mm Thickness.

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR, IWWMP

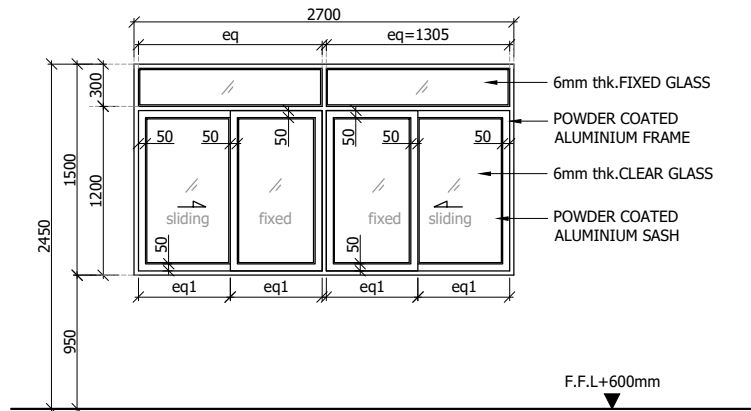
PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : DETAILS OF DOORS & WINDOWS

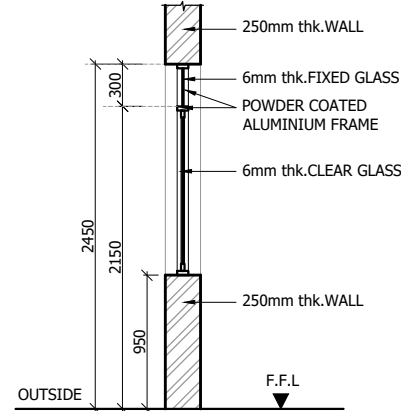
SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRYA
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Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIROJ/P1/AR-WD/19	Rev. No. - Sheet. No.-

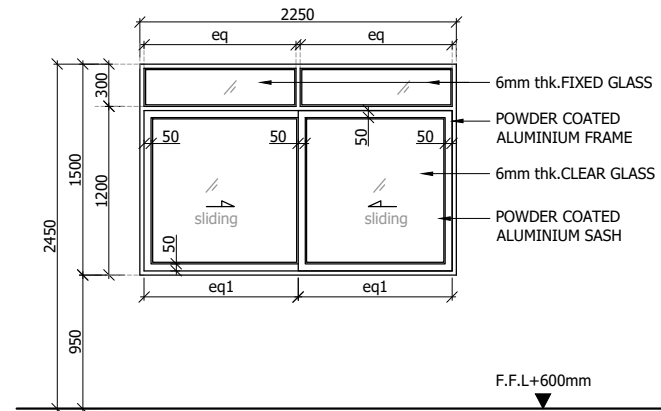
Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd



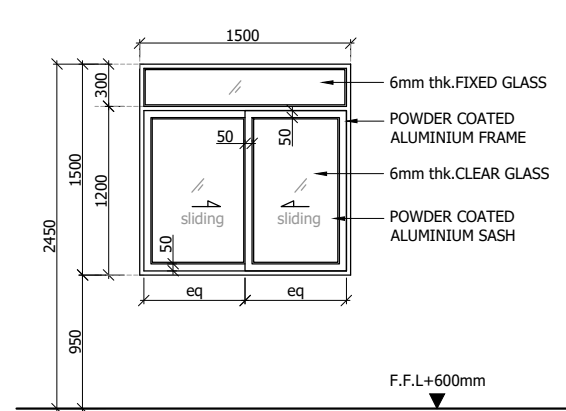
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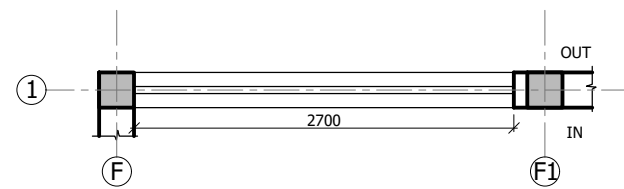
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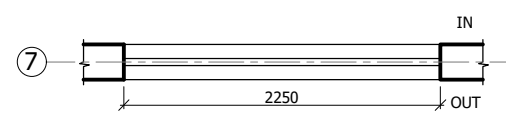
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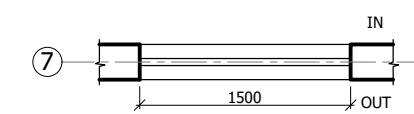
PLAN
SCALE 1:50

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



PLAN
SCALE 1:50



PLAN
SCALE 1:50

WINDOW TYPE W1 - 01 No.

WINDOW TYPE W2 - 01 No.

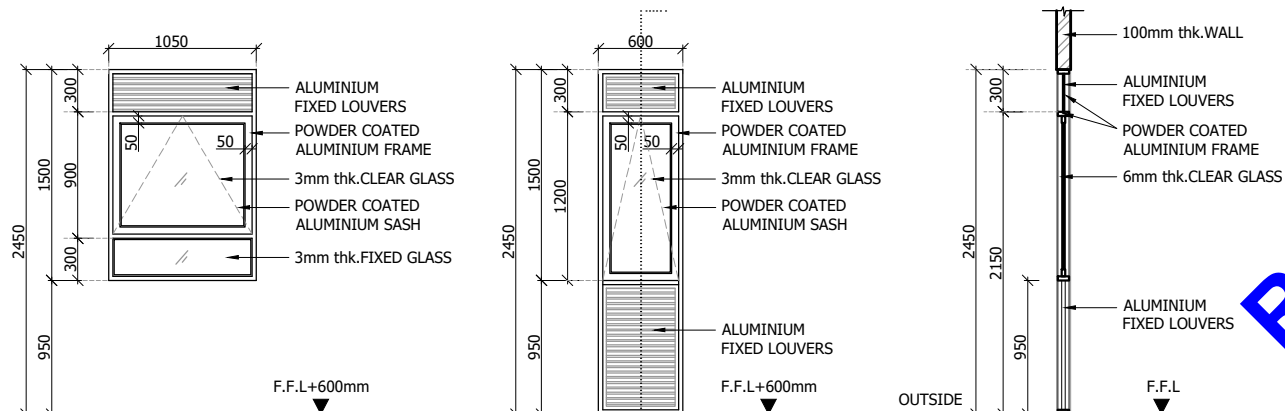
WINDOW TYPE W3 - 03 Nos.

SPECIFICATION

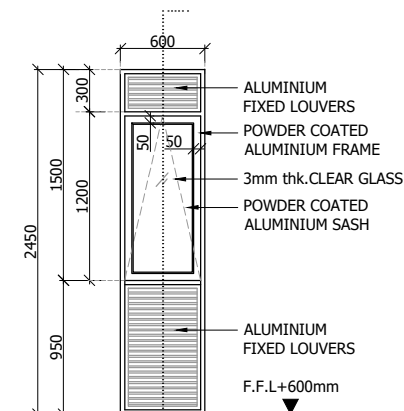
- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS

SPECIFICATION

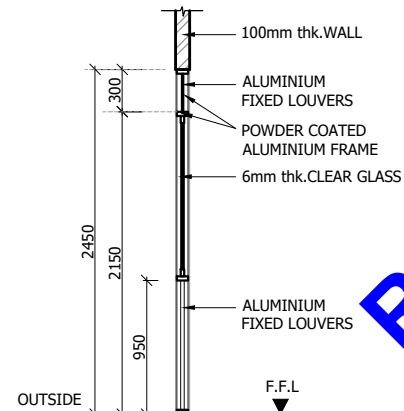
- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



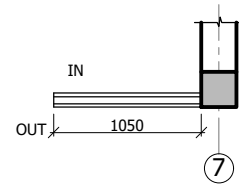
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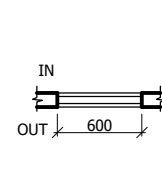
ELEVATION



CROSS SECTION



PLAN
SCALE 1:50



PLAN
SCALE 1:50

WINDOW TYPE W4 - 02 Nos.

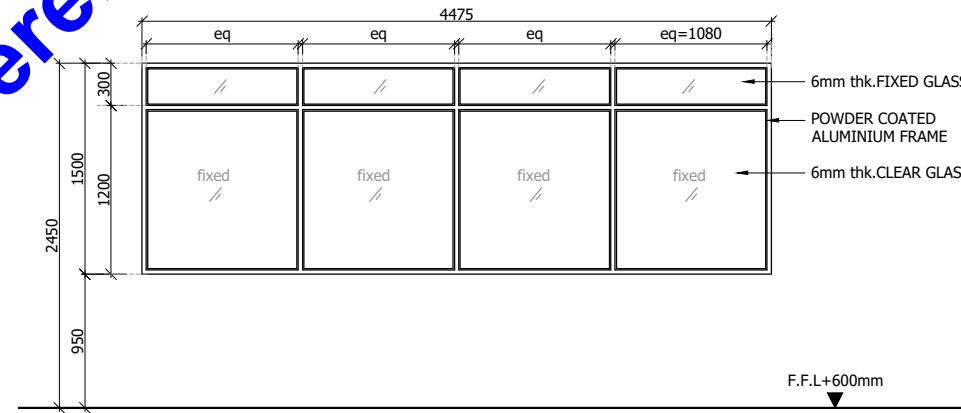
WINDOW TYPE W5 - 01 No.

SPECIFICATION

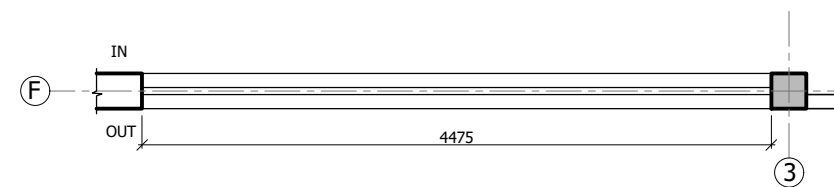
- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- ALUMINIUM FIXED LOUVER PANEL ON TOP & 3mm CLEAR GLASS FIXED PANEL ON BOTTOM.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- ALUMINIUM FIXED LOUVER ON TOP & BOTTOM PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).



ELEVATION



PLAN
SCALE 1:50

WINDOW TYPE W6 - 01 No.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

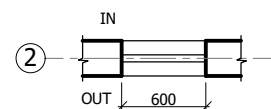
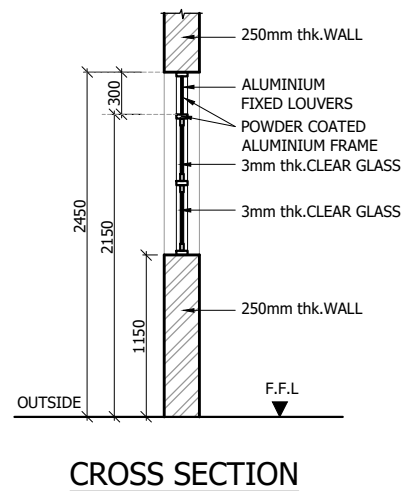
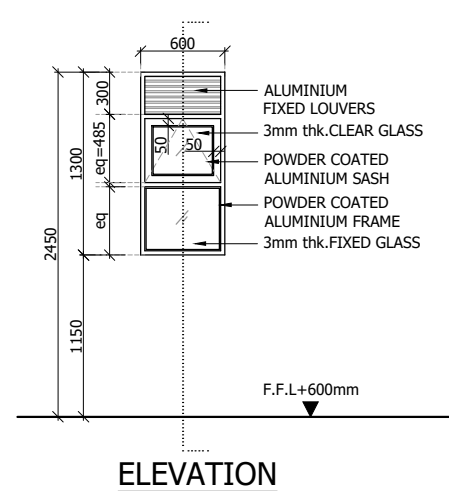
CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : DETAILS OF DOORS & WINDOWS

SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/20	Date - 03-07-2026
A3		Rev. No. -
		Sheet. No. -

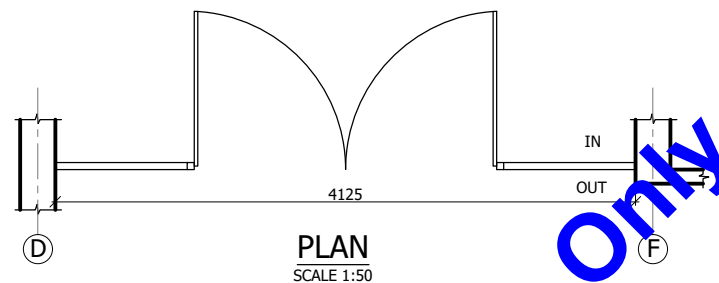
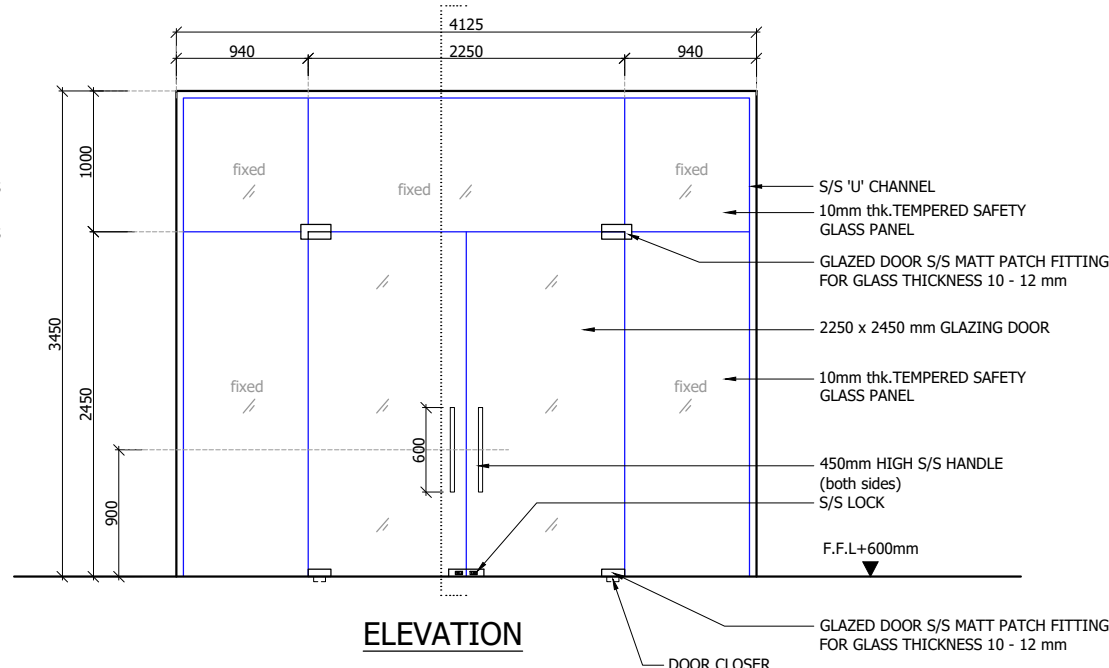


PLAN
SCALE 1:50

FANLIGHT TYPE F1 - 16 Nos.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- ALUMINIUM FIXED LOUVER ON TOP & 3mm CLEAR GLASS FIXED PANEL ON BOTTOM.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).

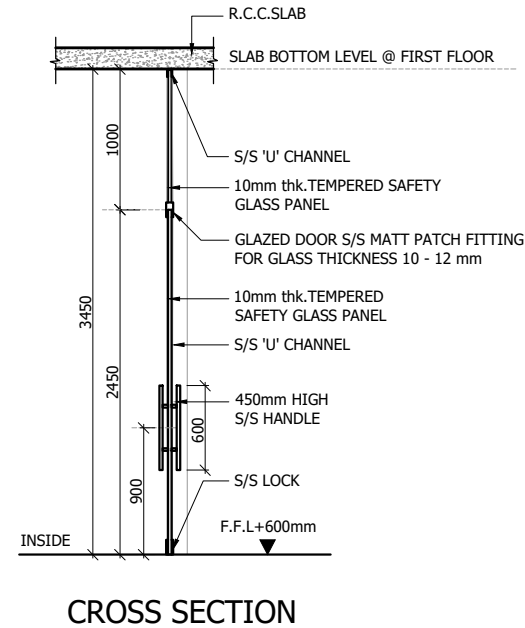


PLAN
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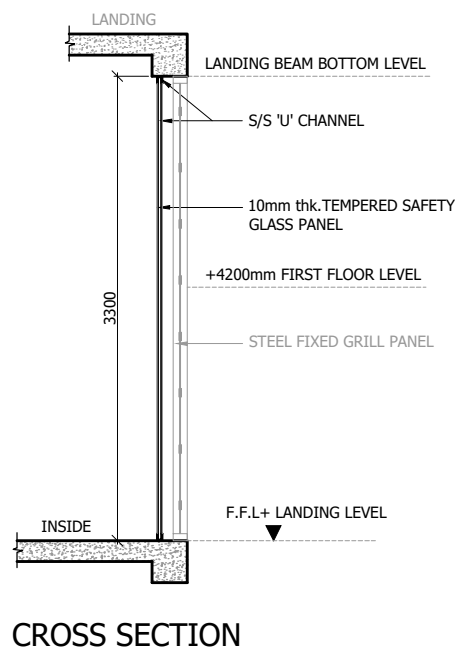
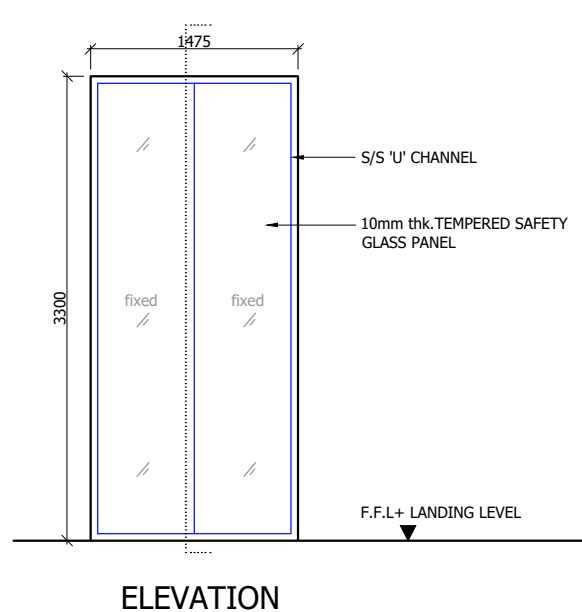
GLASS PANEL TYPE GP1 - 01 No.

SPECIFICATION

- 10mm STANDARD TRANSPARENT HIGH VISIBILITY GLASS.
- TINT FOR REDUCE GLARE AND ESTHETIC APPEAR.
- POLISHED EDGES FOR SAFETY.
- S/S HINGES, HANDLES & LOCKS,AUTO DOOR CLOSER FOR BOTH SIDE(to be selected).



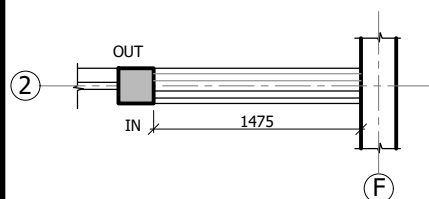
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CROSS SECTION

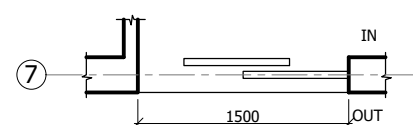
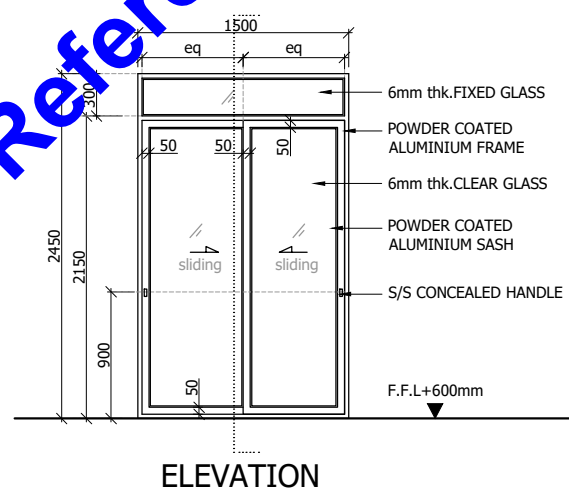
SPECIFICATION

- 10mm STANDARD TRANSPARENT HIGH VISIBILITY GLASS.
- TINT FOR REDUCE GLARE AND ESTHETIC APPEAR.
- POLISHED EDGES FOR SAFETY.



PLAN
SCALE 1:50

GLASS PANEL TYPE GP2 - 02 Nos.

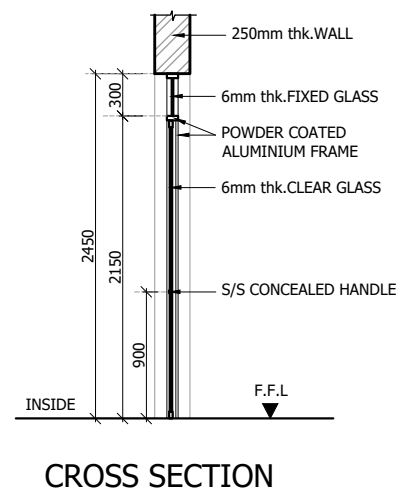


PLAN
SCALE 1:50

SLIDING TYPE SD1 - 05 Nos.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



CROSS SECTION

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : DETAILS OF DOORS & WINDOWS

SRI LANKA LAND DEVELOPMENT CORPORATION
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Fax : +94 11 2862457 / +94 112868001
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web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/21	Rev. No. -
A3		Sheet. No. -



SLIDING TYPE SD2 - 05 Nos.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



SLIDING TYPE SD3 - 12 Nos.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



SLIDING TYPE SD4 - 01 No.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



GLASS DOOR TYPE GD1 - 01 No.



SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS



FIXED GLASS PANEL TYPE FG1 - 01 No.



SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS

E I R O J

**DRAWING TYPE : ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1**

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR, IWWRMP

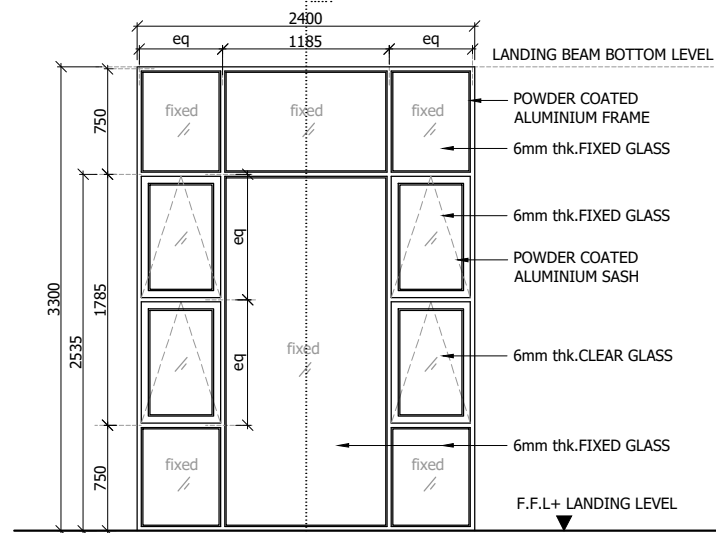
PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE : DETAILS OF DOORS & WINDOWS

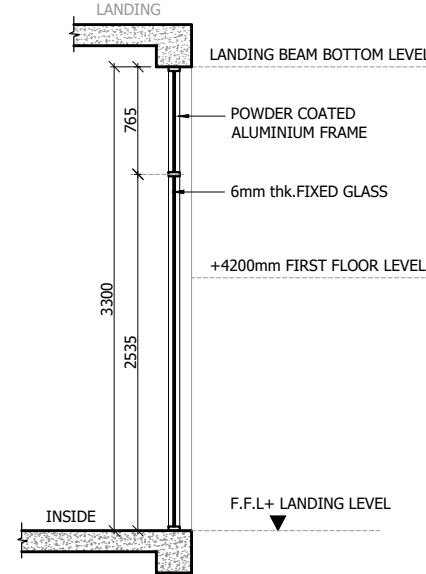
 **SRI LANKA LAND DEVELOPMENT CORPORATION**
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
Drawn	Mr.THILANGA		
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EI/O1/P1/AR-WD/22		Rev. No. -
			Sheet. No. -

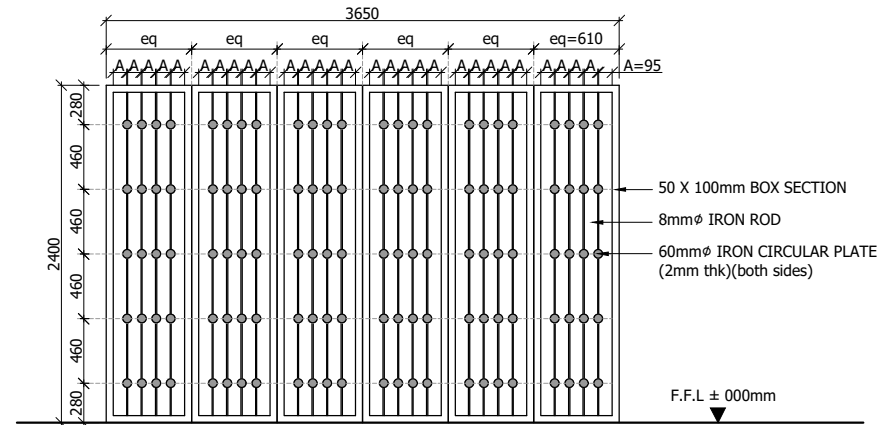
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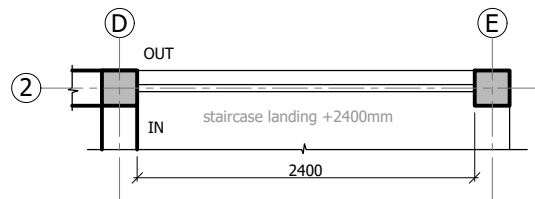
ELEVATION



CROSS SECTION



ELEVATION

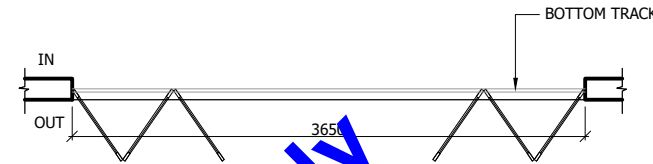


PLAN
SCALE 1:50

FIXED GLASS PANEL TYPE FG2 - 02 Nos.

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 6mm CLEAR GLASS FIXED TOP PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS

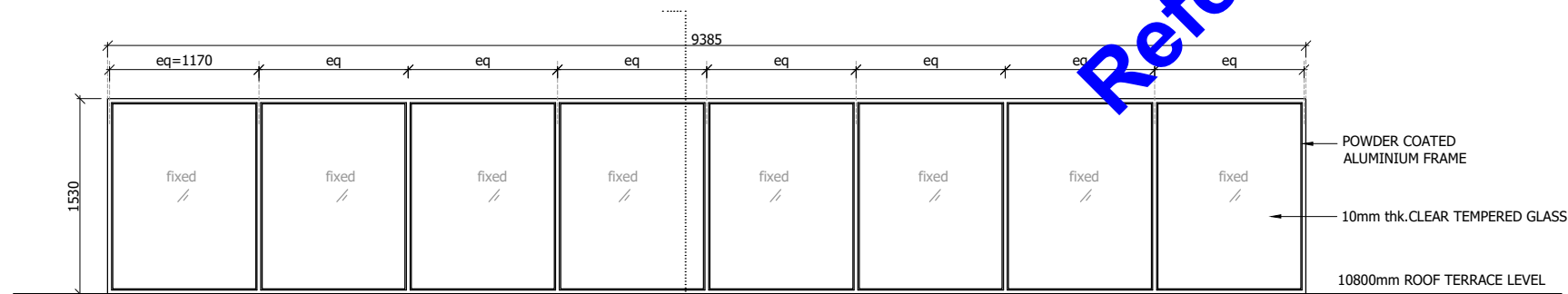


PLAN
SCALE 1:50

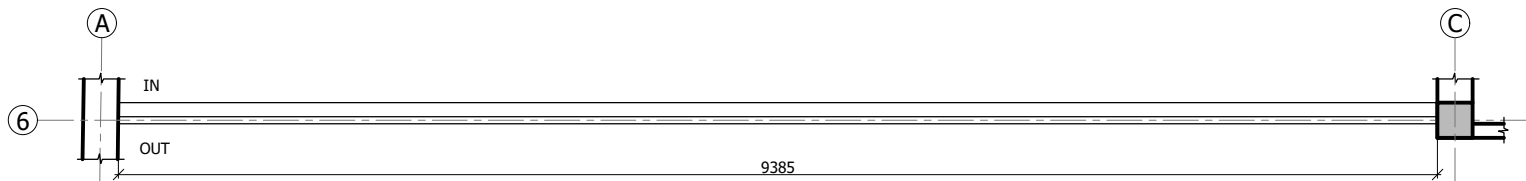
GLASS DOOR TYPE G1 - 01 No.

SPECIFICATION

- 2 COATS OF PRIMER & 2 COATS OF MARINE PAINT.
- 8mm Ø IRON ROD WITH 60mm Ø IRON CIRCULAR PLATE.
- S/S LOCKING MECHANISM, HINGES, LOCKS.
- SMOOTH ROLLING WHEELS & BOTTOM TRACK.

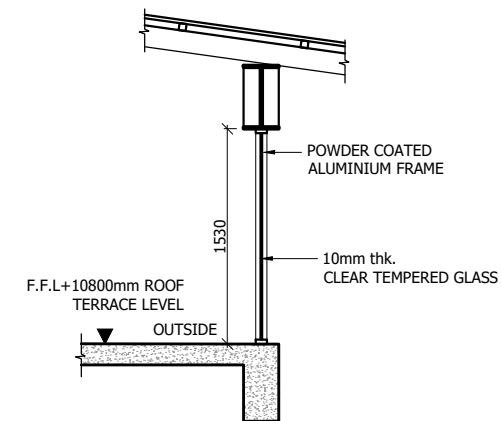


ELEVATION



PLAN
SCALE 1:50

FIXED GLASS PANEL TYPE FG3 - 01 Nos.



CROSS SECTION

SPECIFICATION

- POWDER COATED ALUMINIUM WINDOW FRAME.
- POWDER COATED ALUMINIUM WINDOW SASH.
- 10mm CLEAR TEMPERED GLASS PANEL.
- ALL GLASS COMPONENT WITH THERMAL INSULATION.
- S/S CONCEALED TYPE HANDLE & LOCK(to be selected).
- SMOOTH NYLON ROLLERS

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : DETAILS OF DOORS & WINDOWS

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
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Fax : +94 11 2862457 / +94 11 2868001
E mail : mail@slrldc.lk
web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/23	Rev. No. -
A3		Sheet. No. -

**DRAWING TYPE : ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1**

Rev.	Date	Desd.	Description	Drawn	Chk'd	App.

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

 **SRI LANKA LAND DEVELOPMENT CORPORATION**
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRI
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Fax : +94 11 2862457 / +94 112868001
E mail : mail@slrdc.lk
web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-						
Drawn	Mr.THILANGA							
Checked D.O.A	Mrs. MIHIRANI	Approved (D.G.M) -						
Cad file		<table><tr><td>Scale - AS SHOWN</td><td>Date - 03-07-2026</td></tr><tr><td>Sheet size A3</td><td>Rev. No. -</td></tr><tr><td>Drawing no. 74/EI/ROJ/P1/AR-WD/24</td><td>Sheet. No. -</td></tr></table>	Scale - AS SHOWN	Date - 03-07-2026	Sheet size A3	Rev. No. -	Drawing no. 74/EI/ROJ/P1/AR-WD/24	Sheet. No. -
Scale - AS SHOWN	Date - 03-07-2026							
Sheet size A3	Rev. No. -							
Drawing no. 74/EI/ROJ/P1/AR-WD/24	Sheet. No. -							



SPECIFICATION

- 2 COATS OF PRIMER & 2 COATS OF MARINE PAINT.
- 8mm ϕ IRON ROD WITH 60mm ϕ IRON CIRCULAR PLATE.
- S/S LOCKING MECHANISM, HINGES, LOCKS.



CROSS SECTION

SPECIFICATION

- 2 COATS OF PRIMER & 2 COATS OF MARINE PAINT.
- 8mm ϕ IRON ROD WITH 60mm ϕ IRON CIRCULAR PLATE.
- S/S LOCKING MECHANISM, HINGES, LOCKS.



CROSS SECTION

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- 2 COATS OF PRIMER & 2 COATS OF MARINE PAINT.
- 8mm ϕ IRON ROD WITH 60mm ϕ IRON CIRCULAR PLATE.
- S/S LOCKING MECHANISM, HINGES, LOCKS.



SPECIFICATION

- 2 COATS OF PRIMER & 2 COATS OF MARINE PAINT.
- 8mm ϕ IRON ROD WITH 60mm ϕ IRON CIRCULAR PLATE.
- S/S LOCKING MECHANISM, HINGES, LOCKS.

GRILL DOOR TYPE G5 - 01 No.



SPECIFICATION

- 2 COATS OF PRIMER & 2 COATS OF MARINE PAINT.
- 8mm ϕ IRON ROD WITH 60mm ϕ IRON CIRCULAR PLATE.
- S/S LOCKING MECHANISM, HINGES, LOCKS.

GRILL DOOR TYPE G6 - 01 No.



ROLLER DOOR TYPE RD - 01 No.

SPECIFICATION

- POWDER COATED Zn/Al OR GALVANIZE COATING FOR CORROSION RESISTANCE.
- AUTOMATIC WITH REMOTE CONTROL,AND OTHER SAFETY FEATURES.

E I R O J

**DRAWING TYPE : ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1**

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

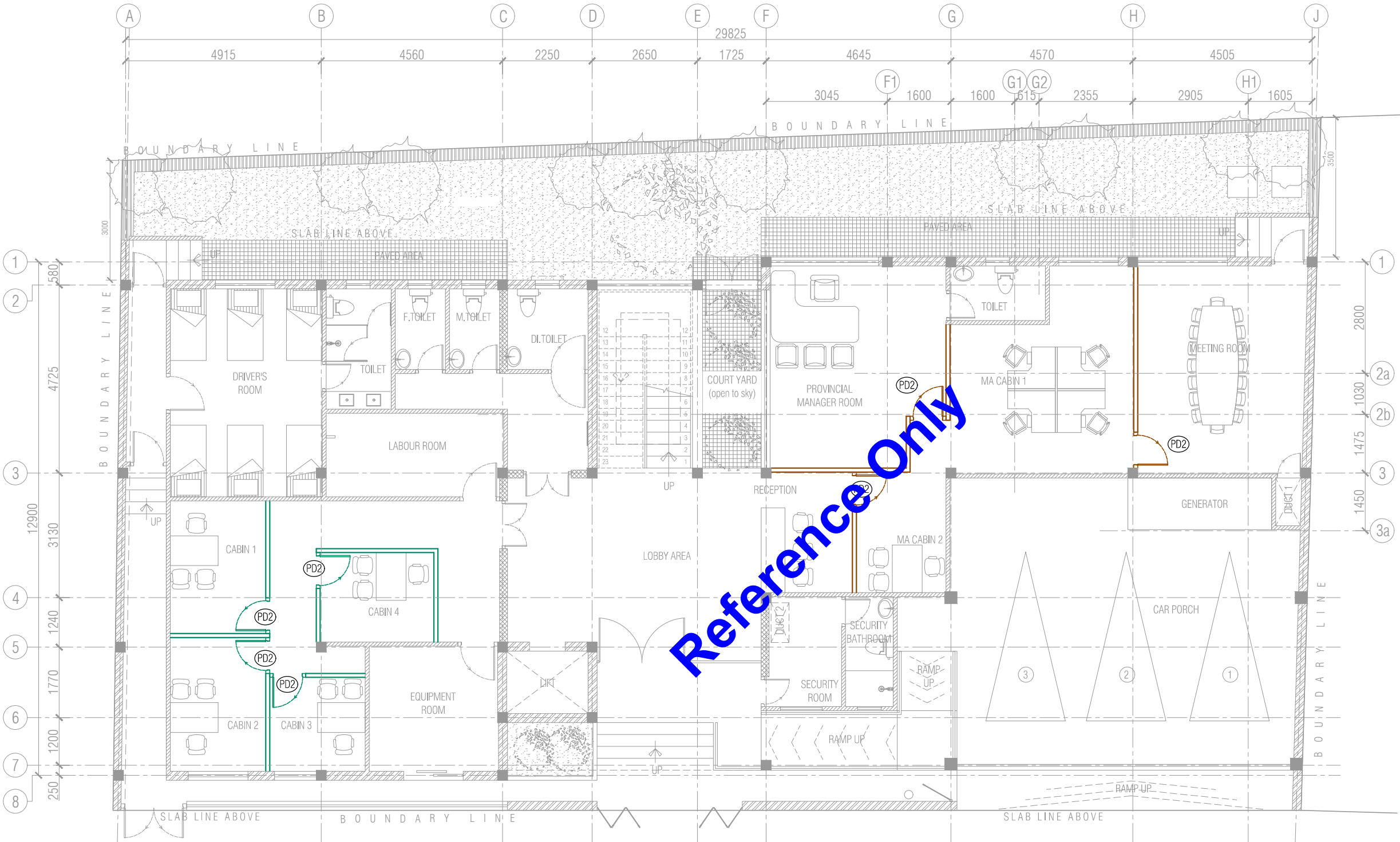
CLIENT : PROJECT DIRECTOR, IWWRMP

PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :	DETAILS OF DOORS & WINDOWS
---------	----------------------------



Project Architect		Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
Drawn		Mr.THILANGA		
Checked D.O.A		Mrs. MIHIRANI		
Cad file			Scale - AS SHOWN	Date - 03-07-2026
Sheet size		Drawing no.		Rev. No. -
A3		74/EIRO/PI/AR-WD/25		Sheet. No.-



PARTITION LAYOUT - GROUND FLOOR PLAN
SCALE - 1:100

SCHEDULE OF PARTITION DOORS								NOS.
NAME	SIZE(mm)	SILL HEIGHT(mm)	DESCRIPTION	Gr	1st	2nd	Roof terrace	
PD1	1200 x 2450	-	ALUMINIUM PARTITION DOUBLE DOOR	-	03	-	-	03
PD2	900 x 2450	-	ALUMINIUM PARTITION DOOR	07	07	-	-	14
PD3	1200 x 2450	-	ALUMINIUM PARTITION DOUBLE DOOR(double swing)	-	01	-	-	01

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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CLIENT : PROJECT DIRECTOR, IWWRP

PROJECT : CONSULTANCY SERVICE FOR DESIGN AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF JAFFNA REGIONAL OFFICE OF WATER RESOURCE BOARD

TITLE : PARTITION LAYOUT - GROUND FLOOR

SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
Drawn	Mr.THILANGA	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIROJ/P1/AR-WD/26	Rev. No. -	Rev. No. -

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

LEGEND :

- PARTITION UP TO CEILING
— PARTITION UP TO 2450mm FROM F.F.L

Rev. Date Desd. Description Drawn Chk'd App'd

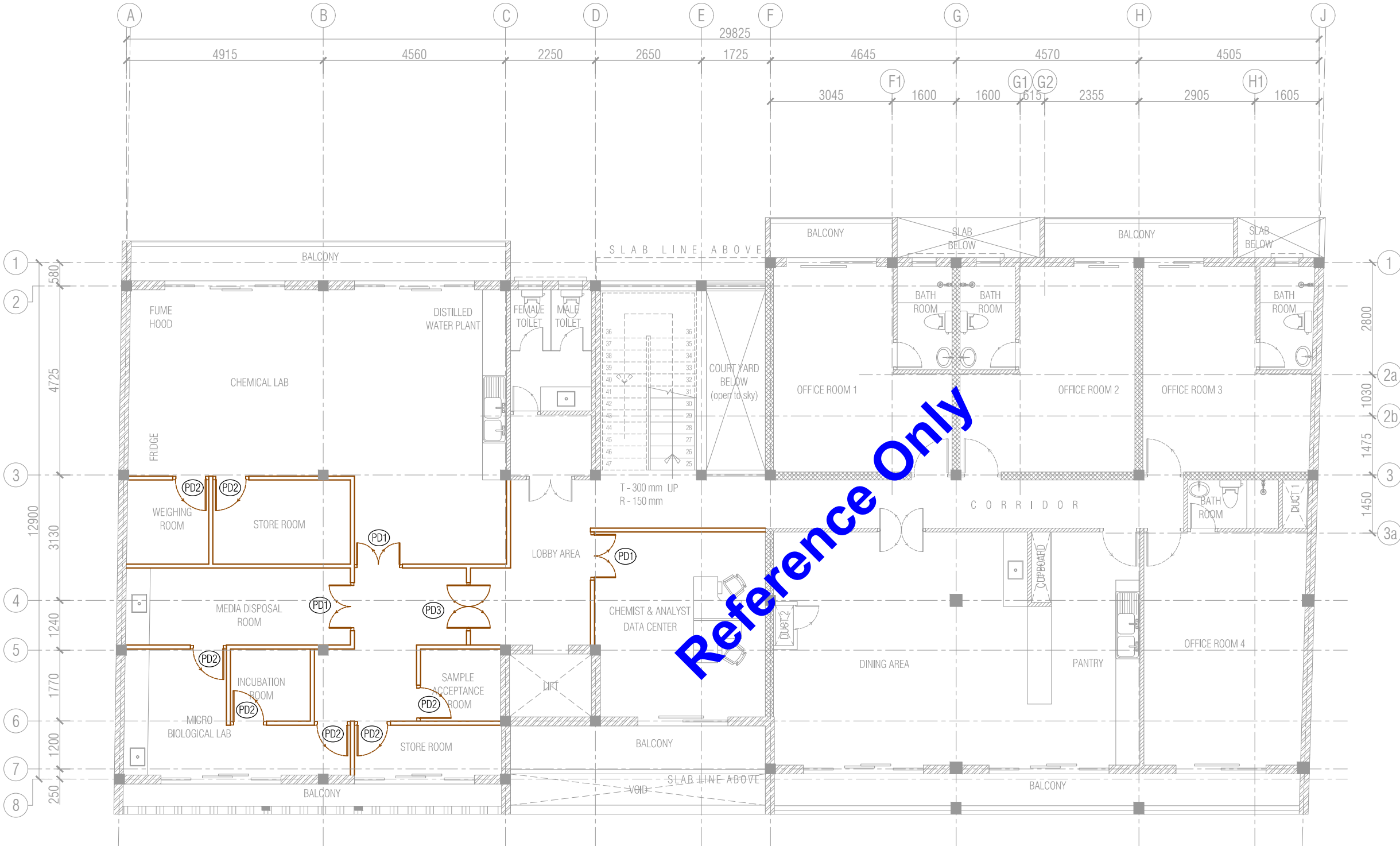
CLIENT :
PROJECT DIRECTOR, IWWRP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
PARTITION LAYOUT - FIRST FLOOR

SRI LANKA LAND DEVELOPMENT CORPORATION
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Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size A3	Drawing no. 74/EIROJ/P1/AR-WD/27	Rev. No. - Sheet. No.-



PARTITION LAYOUT - FIRST FLOOR PLAN
SCALE - 1:100

E I R O J

**DRAWING TYPE : ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1**

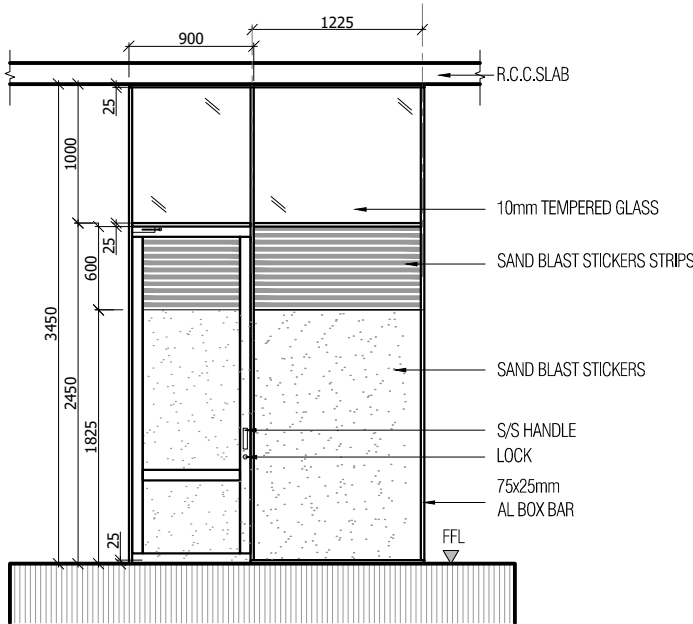
Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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Technical drawing of a glass door assembly showing dimensions and components. The drawing includes the following dimensions and labels:

- Horizontal dimensions: 1225, 1225, 1200
- Vertical dimensions: 1000, 25, 600, 25, 3450, 2450, 1825, 25, 1075, 600, 75, 900
- Labels:
 - 10mm TEMPERED GLASS
 - SAND BLAST STICKERS STRIPS
 - SAND BLAST STICKERS
 - S/S HANDLE LOCK
 - 75x25mm AL BOX BAR
 - FFL (Finish Floor Level)

TYPICAL PARTITION DETAIL WITH
DOUBLE SASH DOOR- ELEVATION

SCALE 1:50



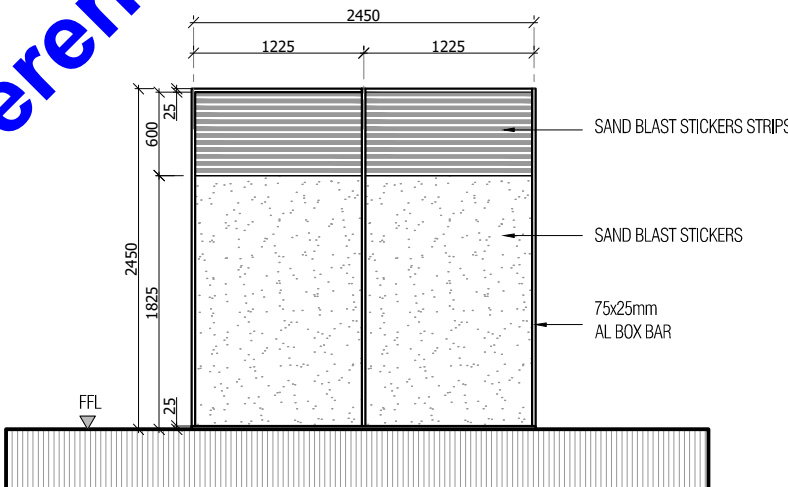
TYPICAL PARTITION DETAIL WITH
SINGLE SASH DOOR- ELEVATION

Technical drawing of a window assembly showing dimensions and components. The drawing includes the following labels and dimensions:

- Dimensions:**
 - Overall width: 2450
 - Overall height: 3450
 - Top horizontal section: 1225 (left) and 1225 (right)
 - Left vertical section: 1000 (top), 600 (middle), and 1825 (bottom)
 - Right vertical section: 25 (top), 25 (middle), and 25 (bottom)
 - Bottom horizontal section: 25
- Components:**
 - R.C.C.SLAB
 - 10mm TEMPERED GLASS
 - SAND BLAST STICKERS STRIPS
 - SAND BLAST STICKERS
 - 75x25mm AL BOX BAR
- Other Labels:**
 - FFL (Finished Floor Level)

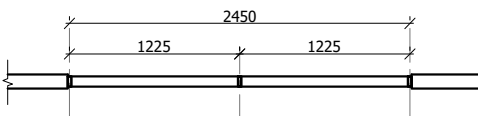
TYPICAL PARTITION DETAIL

SCALE 1:50

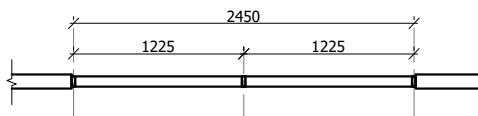


TYPICAL PARTITION DETAIL

SCALE 1:50



PLAN-TYPICAL PARTITION DETAIL TYPE 1 (up to ceiling)



PLAN-TYPICAL PARTITION DETAIL TYPE 2(up to +2450mm)

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CLIENT : PROJECT DIRECTOR, IWWRMP

**PROJECT : CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD**

TITLE : TYPICAL PARTITION DETAILS

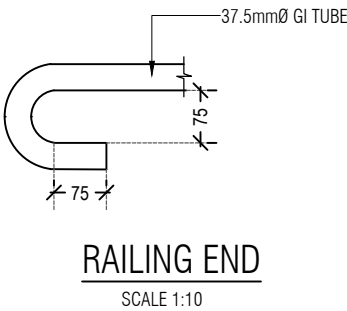
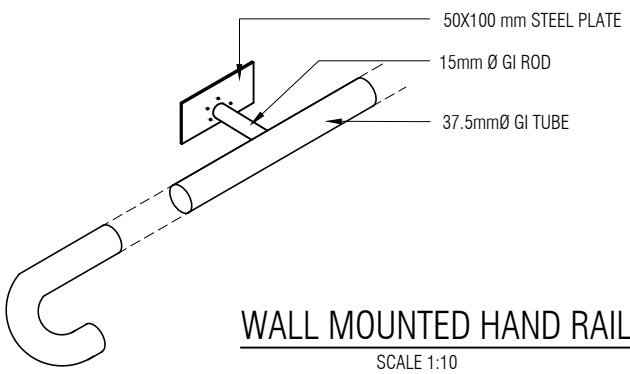
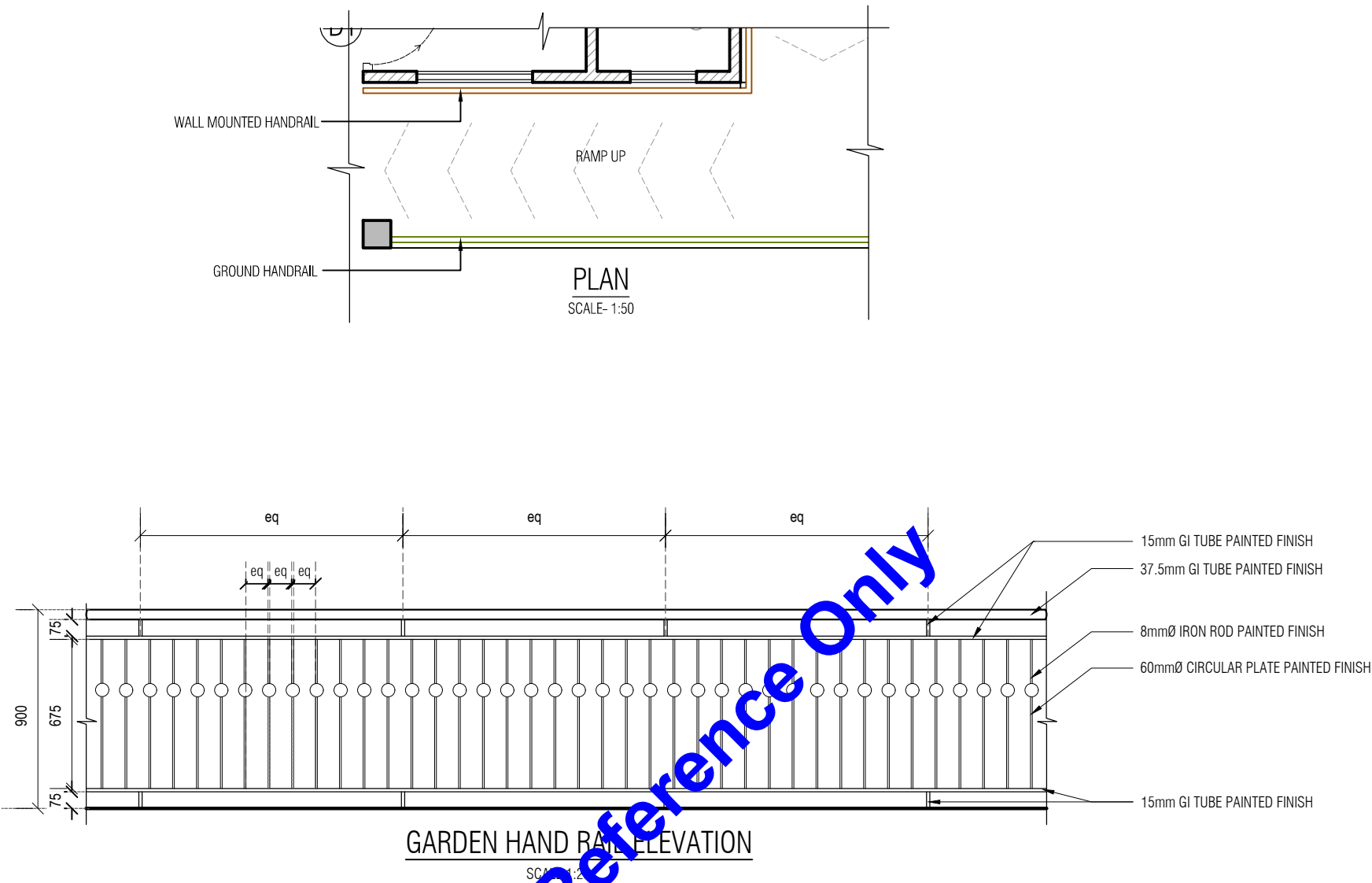
SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.THILANGA	
		Approved (D.G.M) -

Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size A3	Drawing no. 74/EI0J/P1/AR-WD/28		Rev. No. -
			Sheet. No.-

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd



Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
DETAILS OF TYPICAL HANDRAIL

 SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.MADUWANTHA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/29	Rev. No. -
A3		Sheet. No.-

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

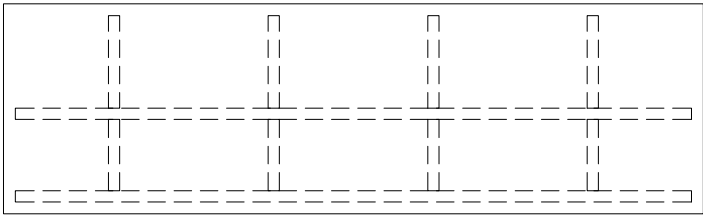
CLIENT :
PROJECT DIRECTOR, IWWRMP

PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

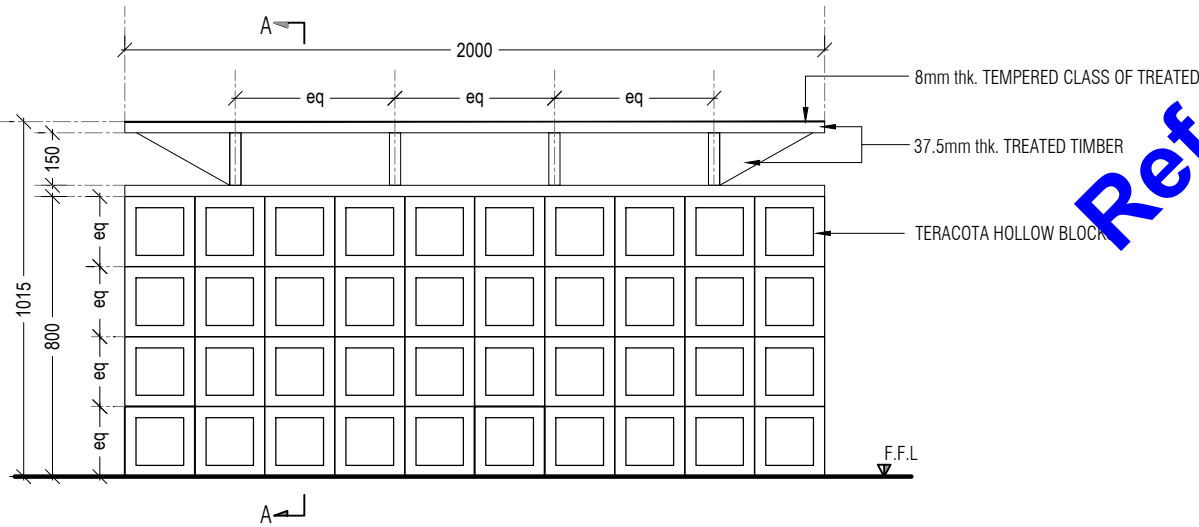
TITLE :
DETAILS OF RECEPTION

 SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRIJAYAWARDENAPURA MAWATHA, WELUKADA RAJAGIRIYA
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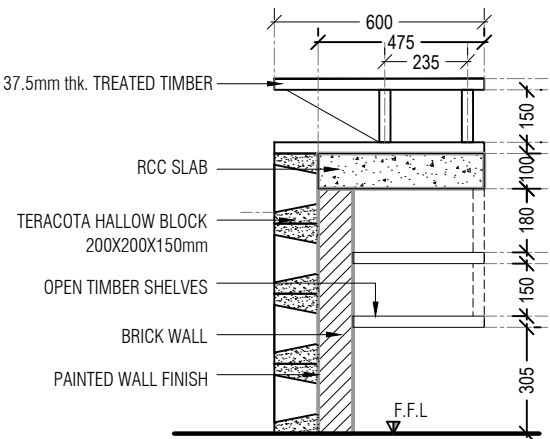
Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.MADUWANTHA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2025
Sheet size	Drawing no. A3	Rev. No. - Sheet. No.-



TEMPERED GLASS TOP
SCALE - 1:20



FRONT ELEVATION
SCALE - 1:20



SECTION A-A
SCALE - 1:20

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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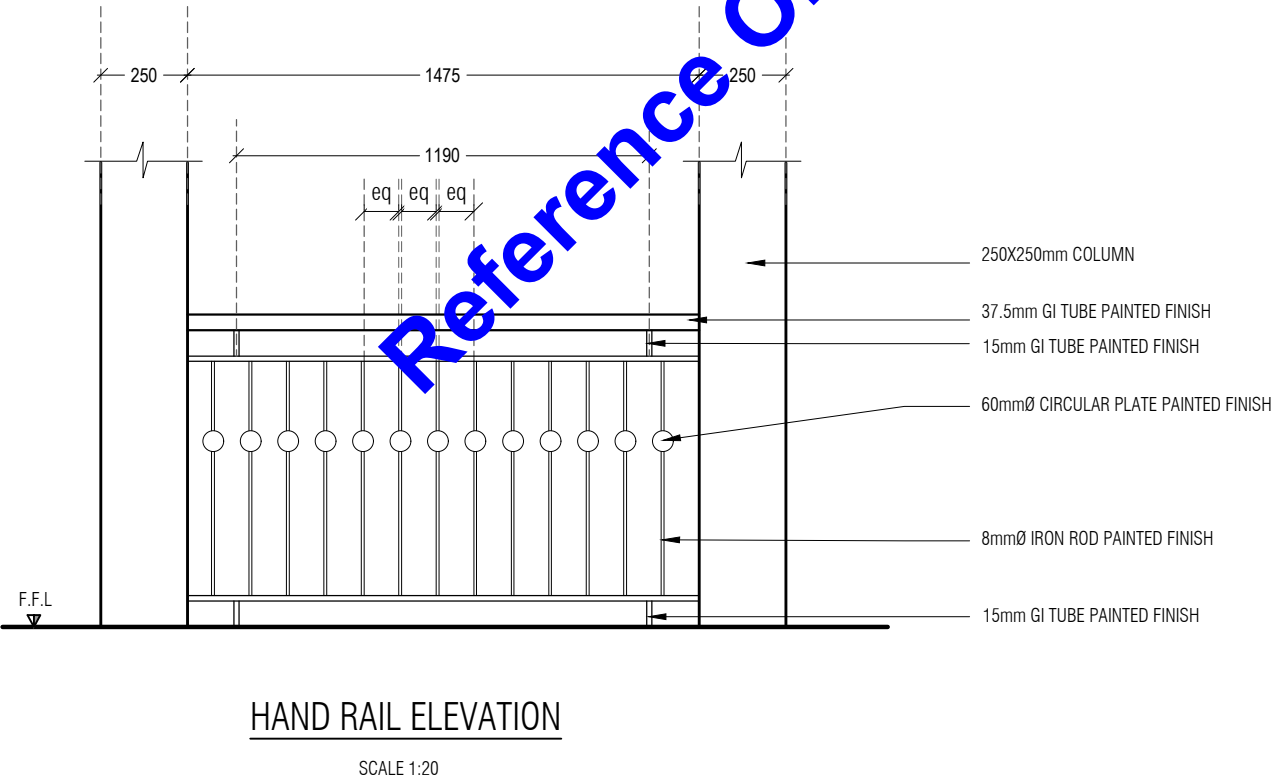
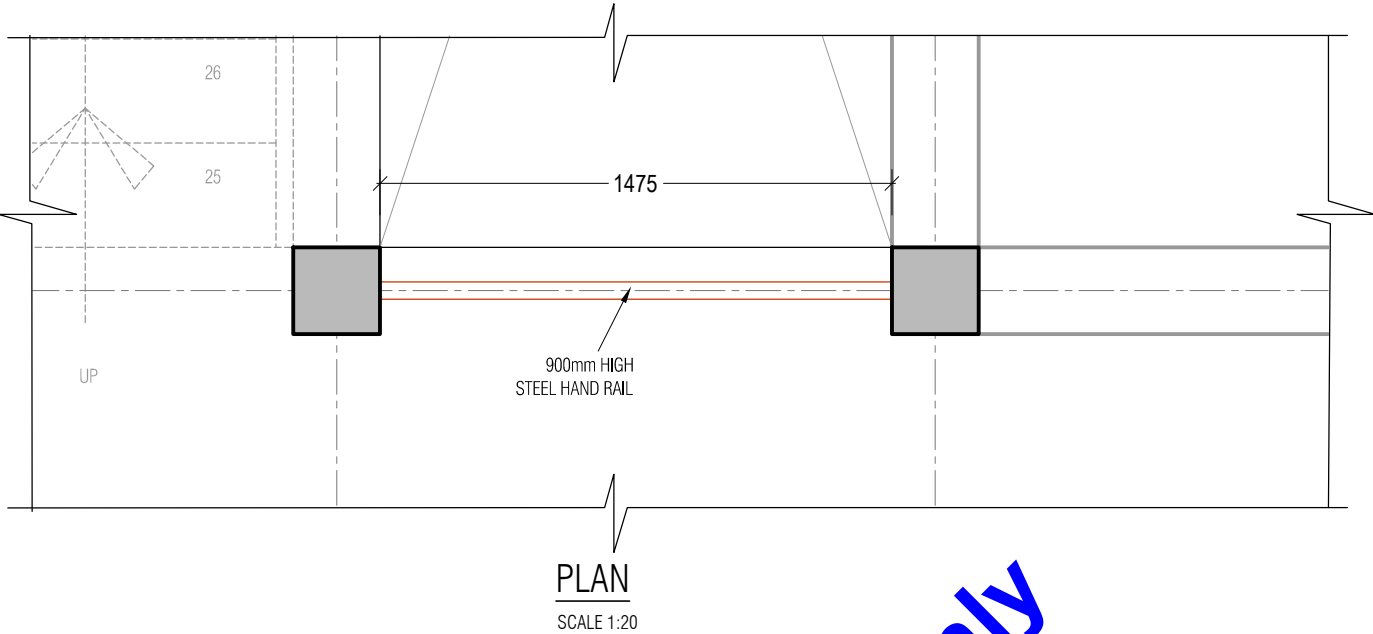
CLIENT :
PROJECT DIRECTOR, IWWRMP

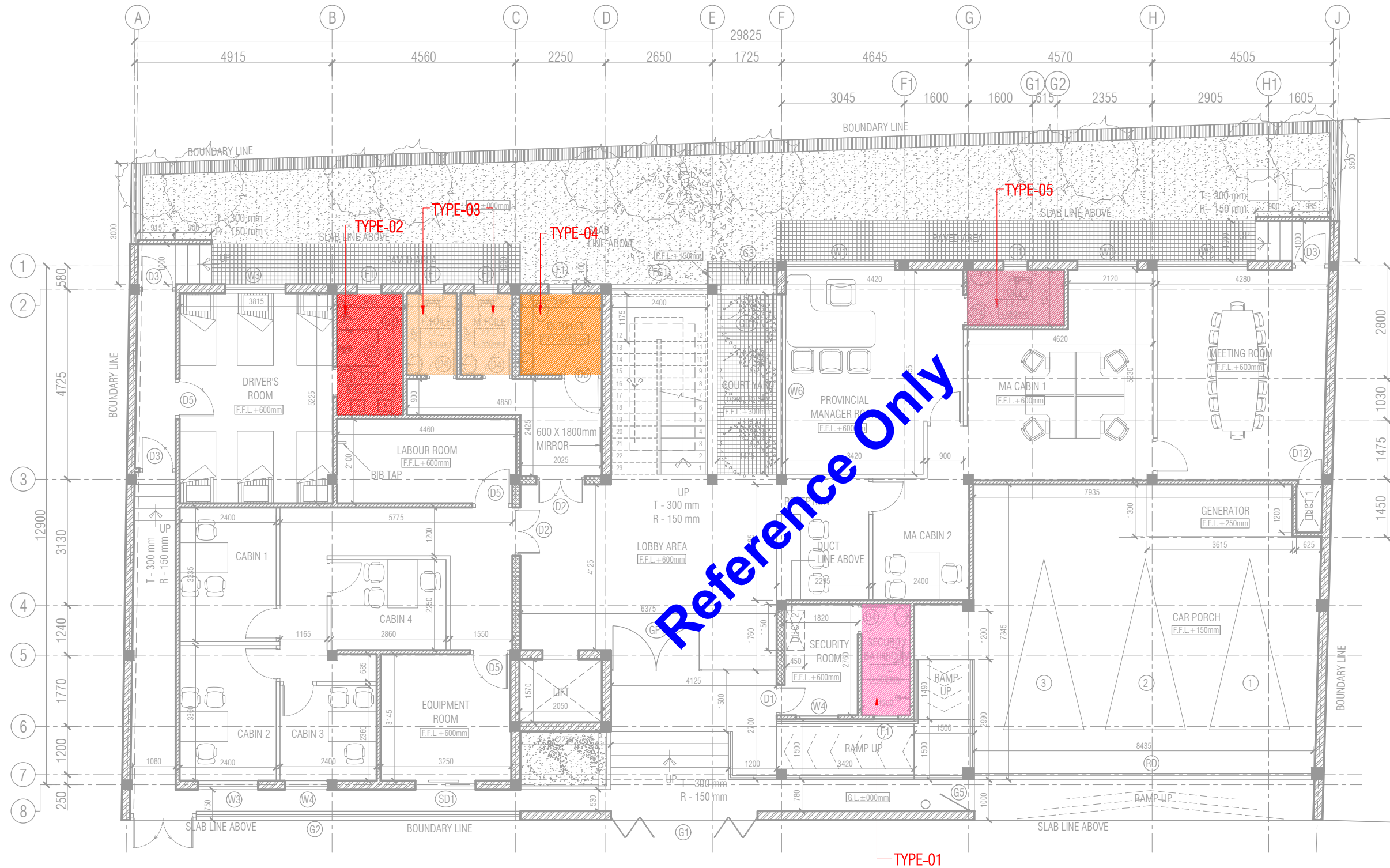
PROJECT :
CONSULTANCY SERVICE FOR DESIGN
AND CONSTRUCTION SUPERVISION FOR
ESTABLISHMENT OF JAFFNA REGIONAL
OFFICE OF WATER RESOURCE BOARD

TITLE :
DETAILS OF TYPICAL HANDRAIL FIRST
FLOOR AND SECOND FLOOR

 SRI LANKA LAND DEVELOPMENT CORPORATION
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Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	Mr.MADUWANTHA	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	A3	Drawing no. 74/EIROJ/P1/AR-WD/31 Rev. No. - Sheet. No. -





GROUND FLOOR PLAN

SCALE - 1:100

AREA - 365.20 sqm

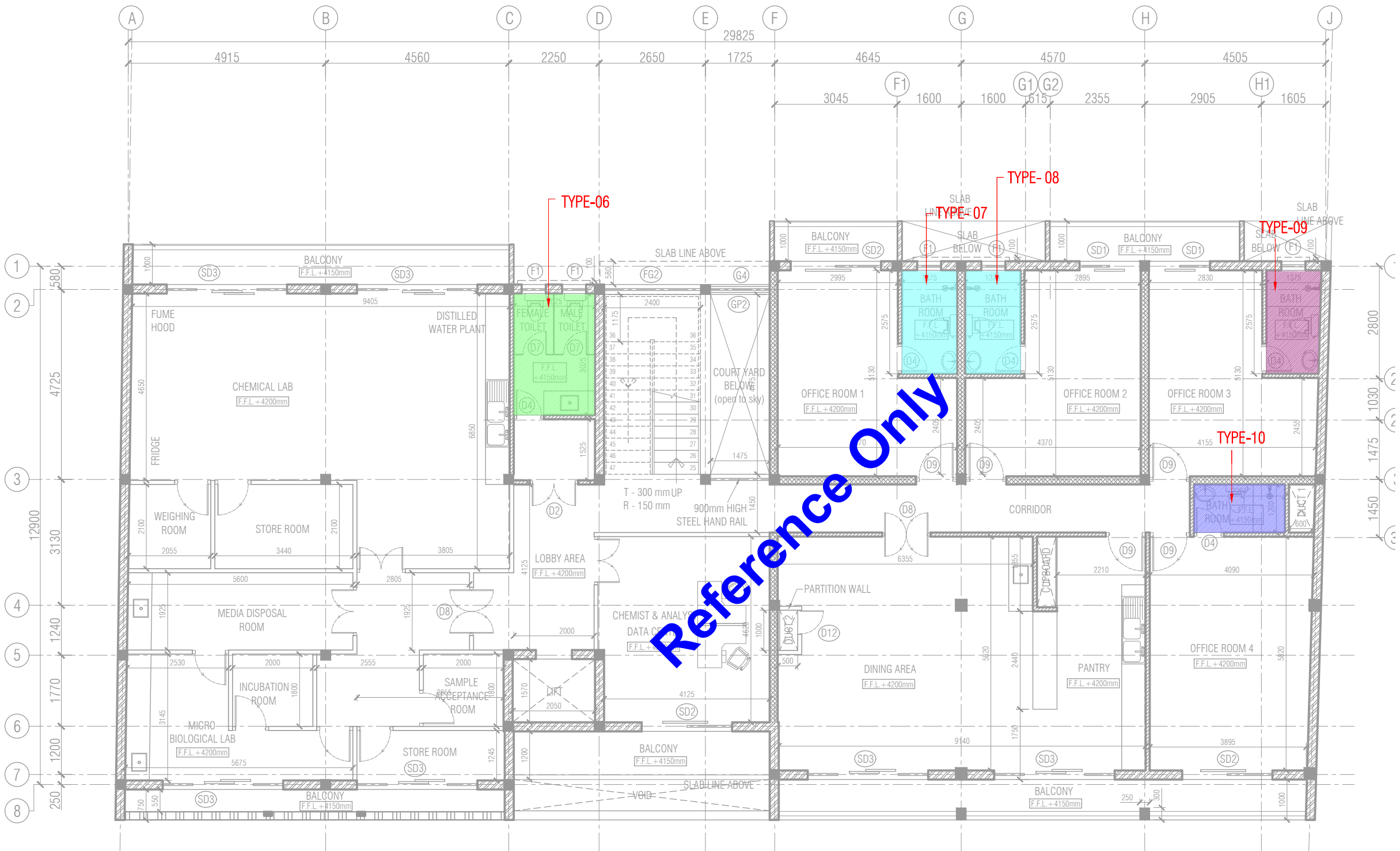
CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENT UNIT, IWRMP.

PROJECT : ESTABLISHMENT OF
IWRMP REGIONAL OFFICE AT JAFFNA.

TITLE :
TOILET DETAIL - KEY PLAN

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
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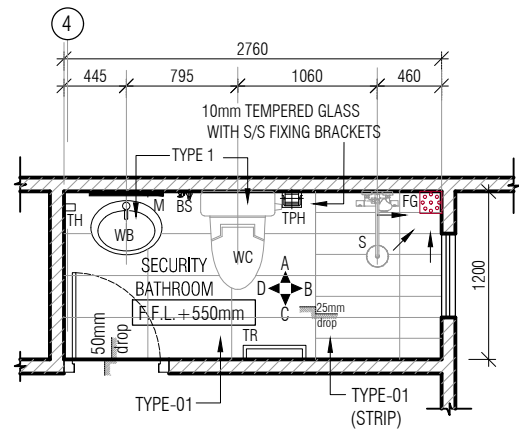
Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	ALM.RIZVI	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/36	Rev. No. -
A3		Sheet. No.-



FIRST FLOOR PLAN

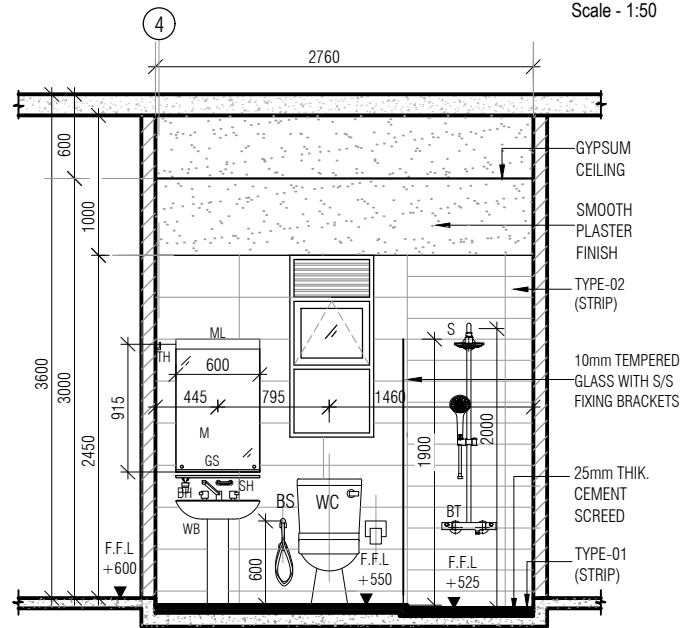
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AREA - 356.42 sqm

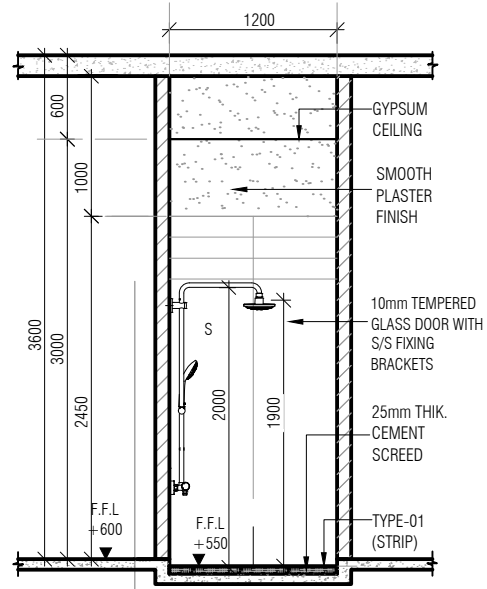


PLAN
GROUND FLOOR (TYPE-01)
Scale - 1:50

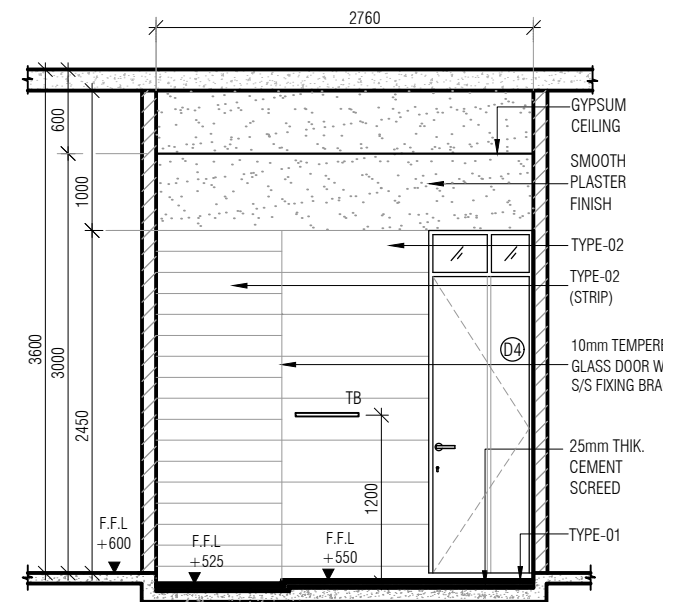
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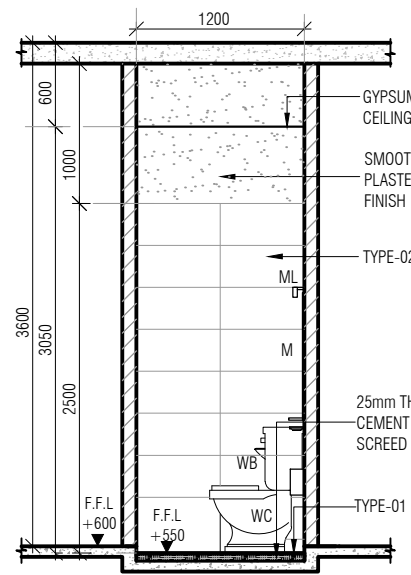
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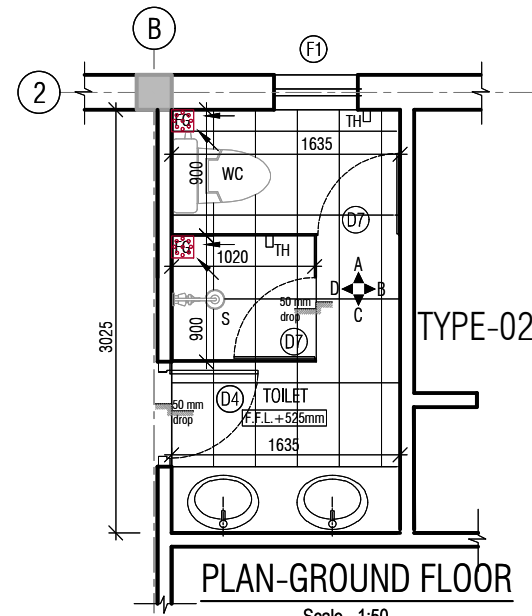
ELEVATION -B-
Scale - 1:50



ELEVATION -C-
Scale - 1:50

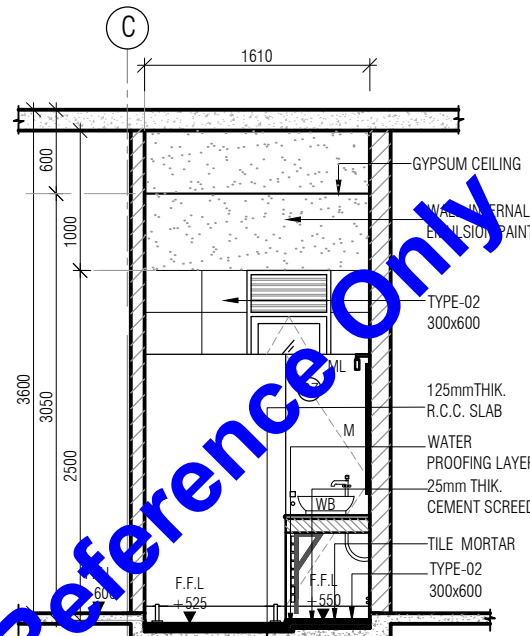


ELEVATION -D-
Scale - 1:50

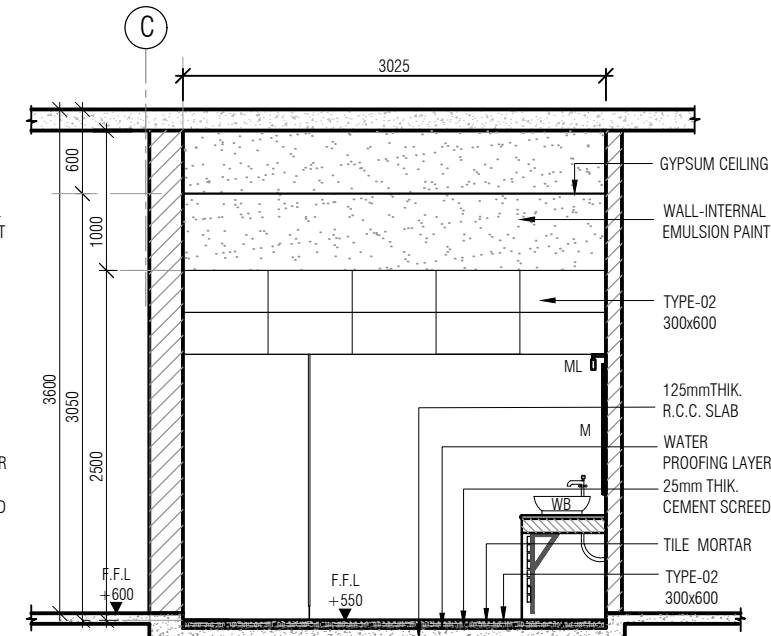


TYPE-02

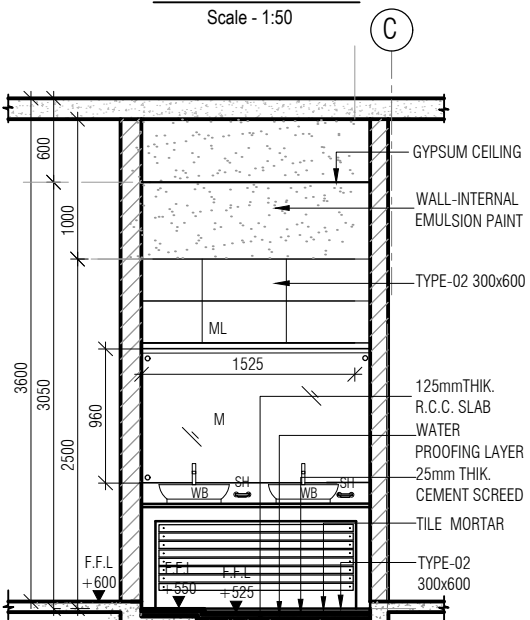
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Scale - 1:50



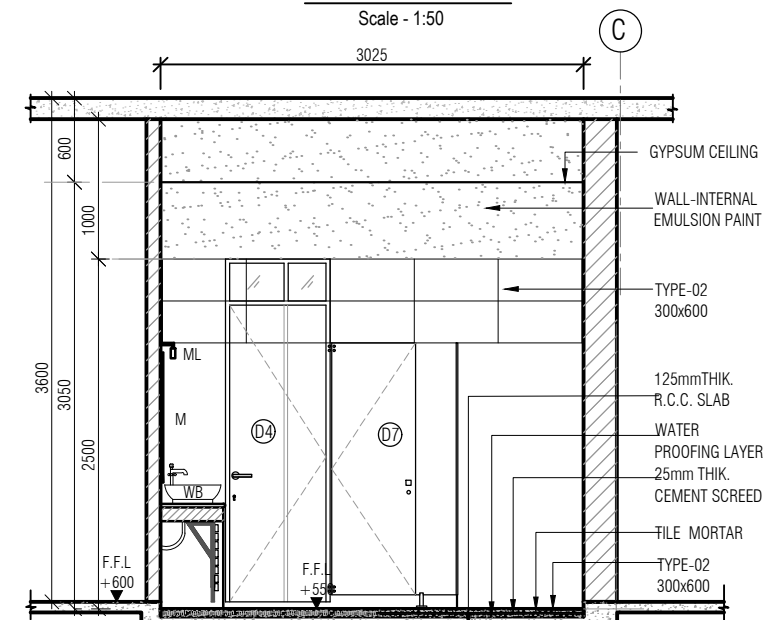
ELEVATION -A-
Scale - 1:50



ELEVATION -B-
Scale - 1:50



ELEVATION -C-
Scale - 1:50



ELEVATION -D-
Scale - 1:50

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

LEGEND

- WC - WATER CLOSET
- BS - BIDET SPRAY
- TPH - TOILET PAPER HOLDER
- BT - BIB TAP
- S - SHOWER
- FG - FLOOR GULLY
- TH - TOWEL HOOKS
- TR - TOWEL RAIL
- M - MIRROR
- ML - MIRROR LIGHT
- GS - GLASS SHELF
- WB/WM - WASH BASIN / WALL MOUNTED
- BH - BRUSH HOLDER
- SH - SOAP HOLDER

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

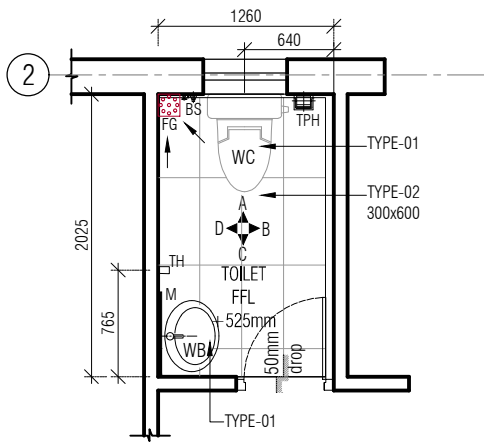
CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENT UNIT, IWWRM.

PROJECT : ESTABLISHMENT OF
IWWRM REGIONAL OFFICE AT JAFFNA.

TITLE : DETAILS OF TOILET -
TYPE 01 & TYPE 02
(GROUND FLOOR)

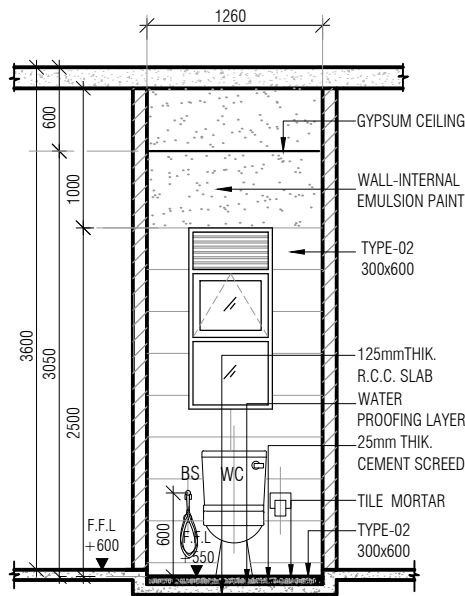
SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA WELIKADA RAJAGIRIYA
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Checked D.O.A	Mrs. MIHIRANI	
Cad file	Scale - AS SHOWN	Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/39	Rev. No. -
A3		Sheet No.-



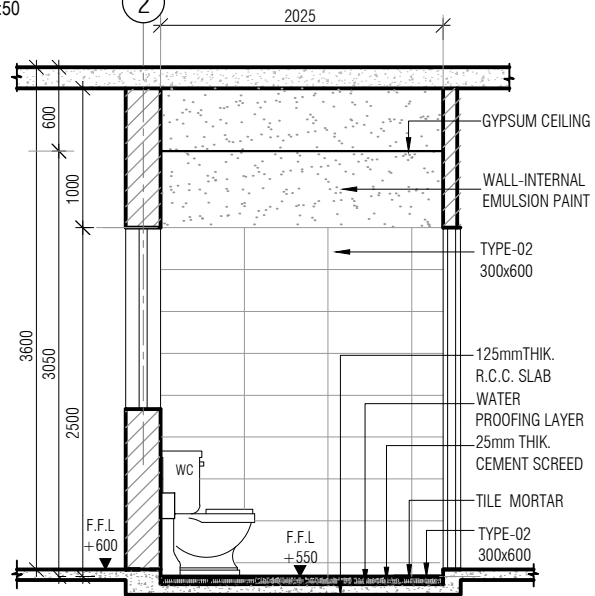
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Scale - 1:50



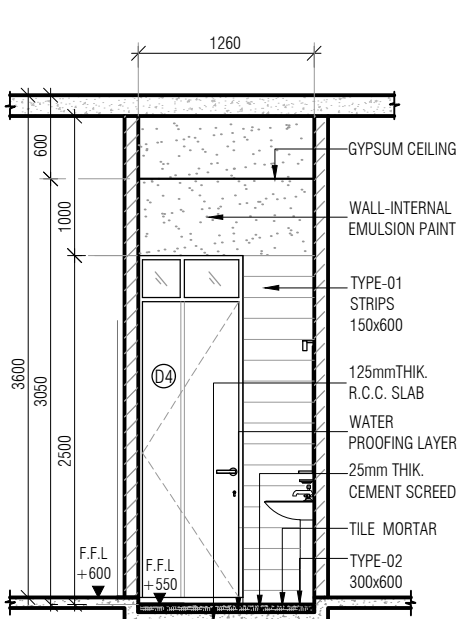
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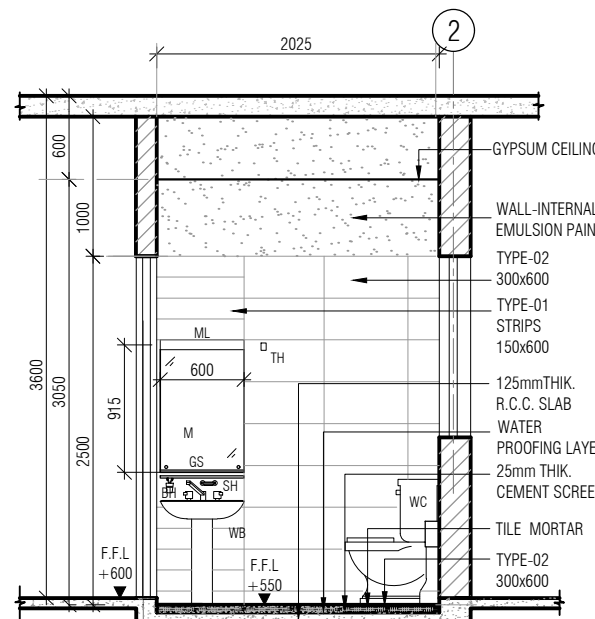
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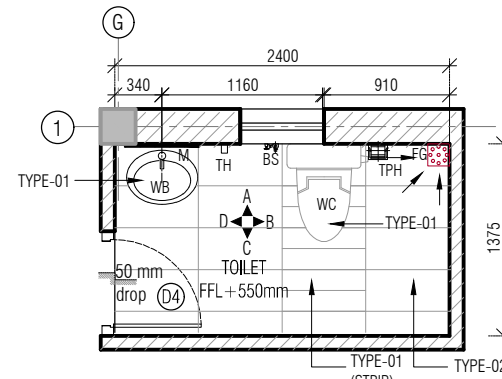
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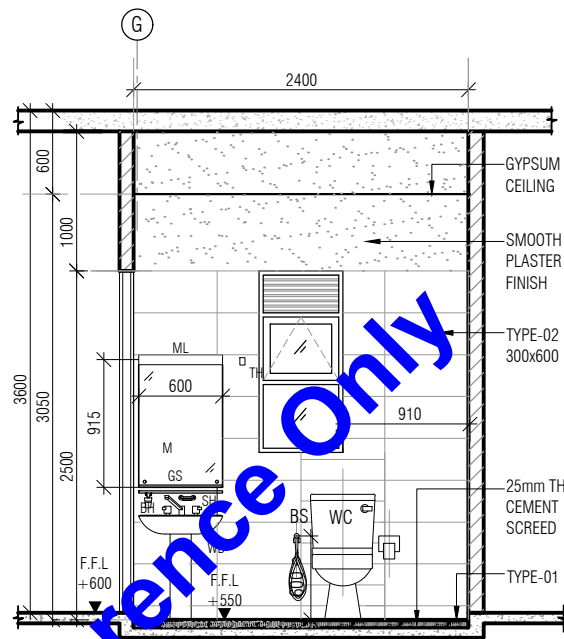
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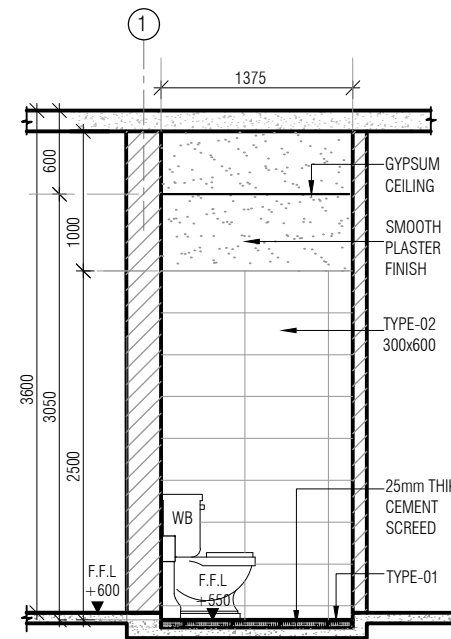
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Scale - 1:50



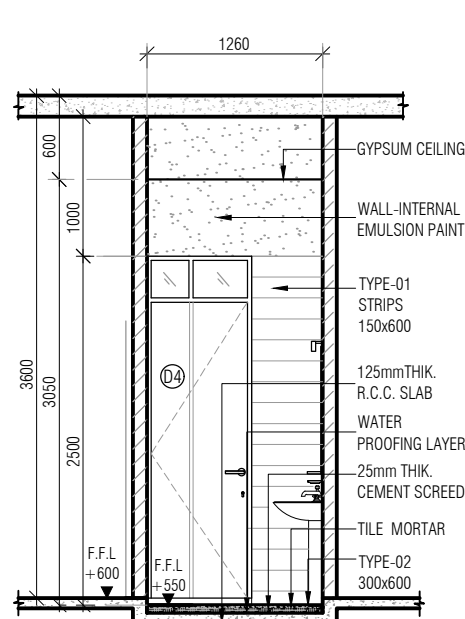
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Scale - 1:50



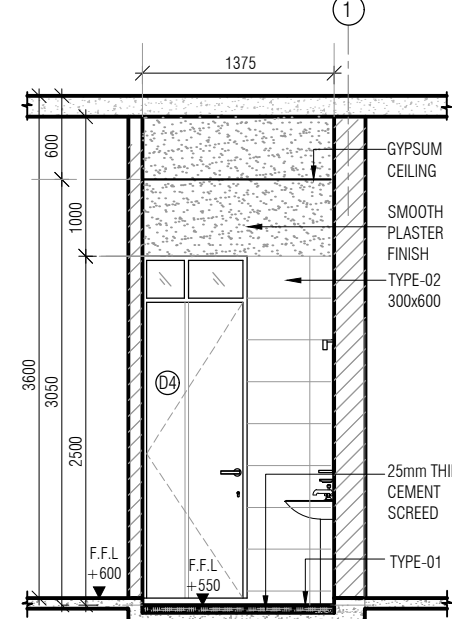
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Scale - 1:50



ELEVATION -C-

Scale - 1:50



ELEVATION -D-

Scale - 1:50

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

LEGEND

- WC - WATER CLOSET
- BS - BIDET SPRAY
- TPH - TOILET PAPER HOLDER
- BT - BIB TAP
- S - SHOWER
- FG - FLOOR GULLY
- TH - TOWEL HOOKS
- TR - TOWEL RAIL
- M - MIRROR
- ML - MIRROR LIGHT
- GS - GLASS SHELF
- WB/WM - WASH BASIN /WALL MOUNTED
- BH - BRUSH HOLDER
- SH - SOAP HOLDER

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENT UNIT, IWWRM.

PROJECT : ESTABLISHMENT OF
IWWRM REGIONAL OFFICE AT JAFFNA.

TITLE : DETAILS OF TOILET -
TYPE 03 & TYPE 05
(GROUND FLOOR)

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
+94 11 2867533 / +94 11 2862457 / +94 11 2863696
Fax : +94 11 2862457 / +94 11 2868001
E mail : mail@slldc.lk
web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-
Drawn	ALM.RIZVI	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	74/EIROJ/P1/AR-WD/40	Rev. No. -
A3		Sheet No. -

TYPE-04

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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LEGEND

- WC - WATER CLOSET
BS - BIDET SPRAY
TPH - TOILET PAPER HOLDER
BT - BIB TAP
S - SHOWER
FG - FLOOR GULLY
TH - TOWEL HOOKS
TR - TOWEL RAIL
M - MIRROR
ML - MIRROR LIGHT
GS - GLASS SHELF
WB/WM - WASH BASIN /WALL MOUNTED
BH - BRUSH HOLDER
SH - SOAP HOLDER
RGB - RETRACTABLE GRAB BAR

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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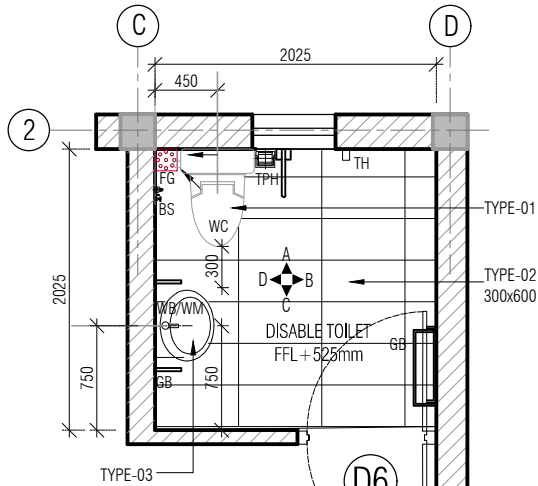
CLIENT :
PROJECT DIRECTOR,
PROJECT MANAGEMENT UNIT, IWWRMP.

PROJECT :
ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

TITLE :
DETAILS OF TOILET -
TYPE 04
(GROUND FLOOR)

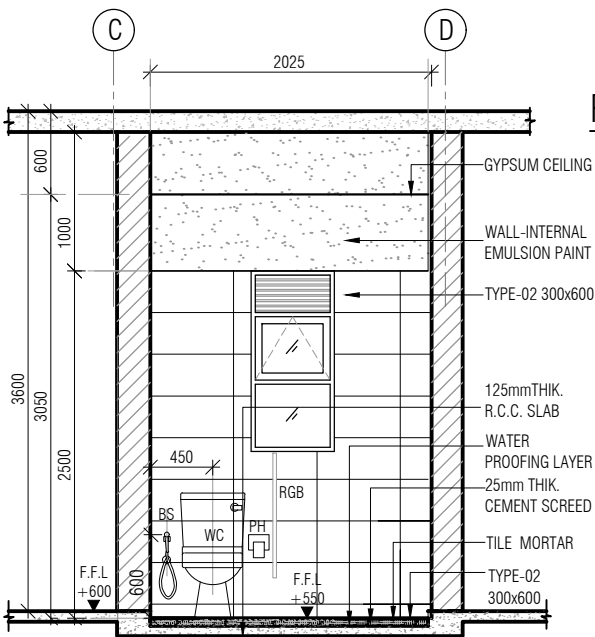
SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
+94 11 2867533 / +94 112862457 / +94 112863696
Fax : +94 11 2862457 / +94 112868001
E mail : mail@slldc.lk
web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-	
Drawn	ALM.RIZVI	Approved (D.G.M) -	
Checked D.O.A	Mrs. MIHIRANI		
Cad file		Scale - AS SHOWN	Date - 03-07-2026
Sheet size	A3	Drawing no. 74/EIROJ/P1/AR-WD/41	Rev. No. - Sheet. No.-



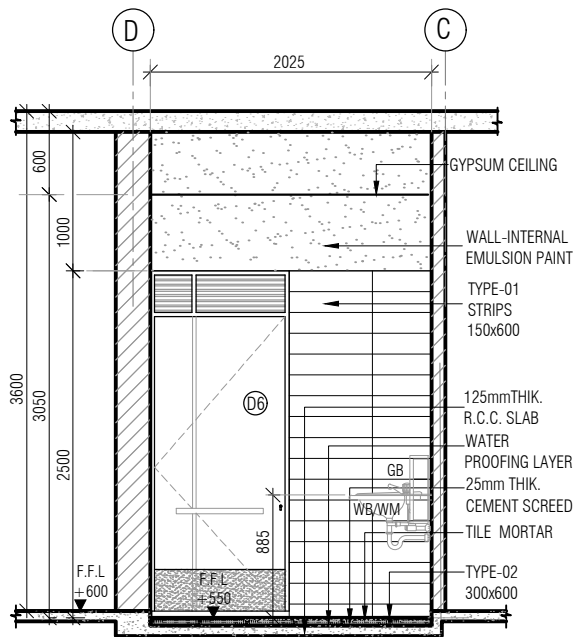
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Scale - 1:50



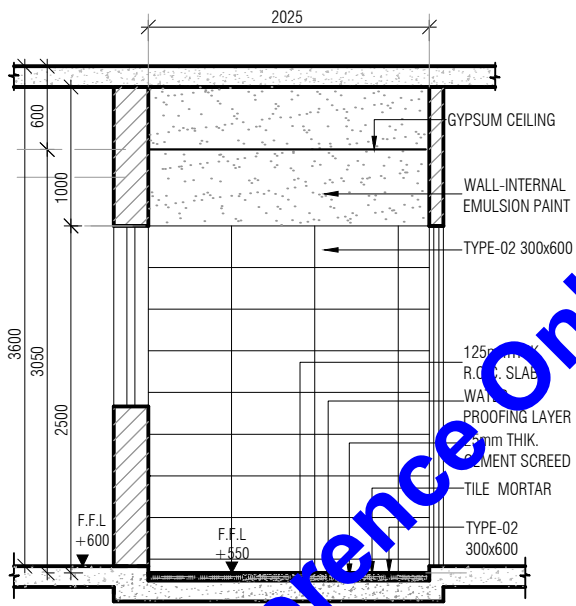
ELEVATION -A-

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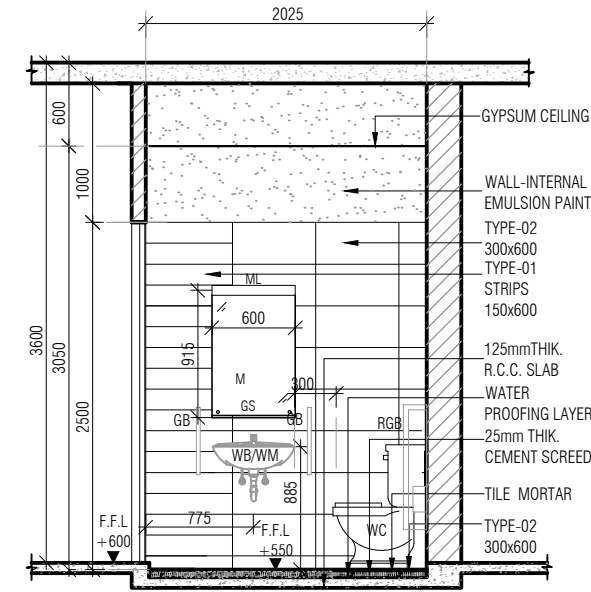
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Scale - 1:50



ELEVATION -B-

Scale - 1:50

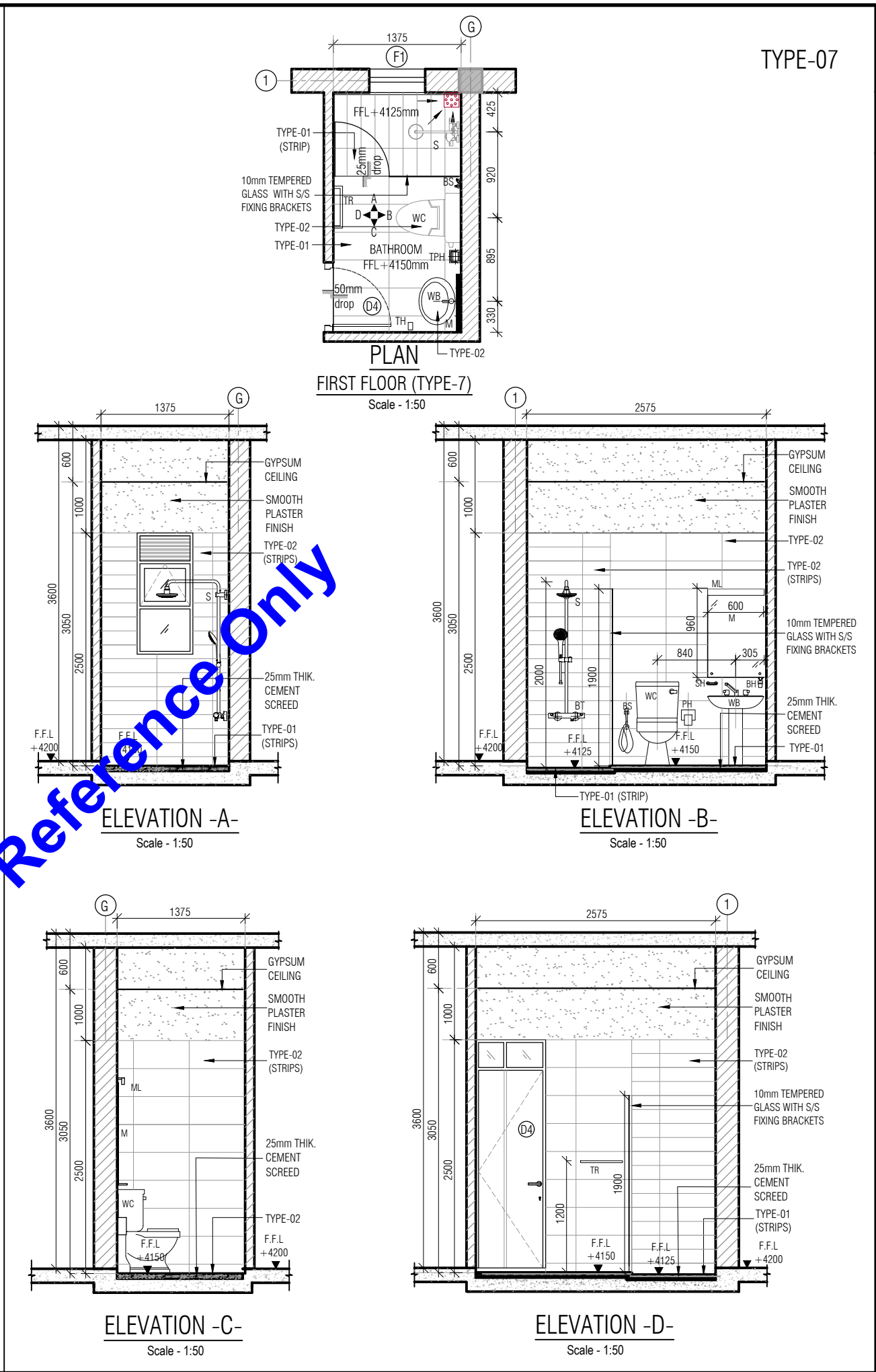
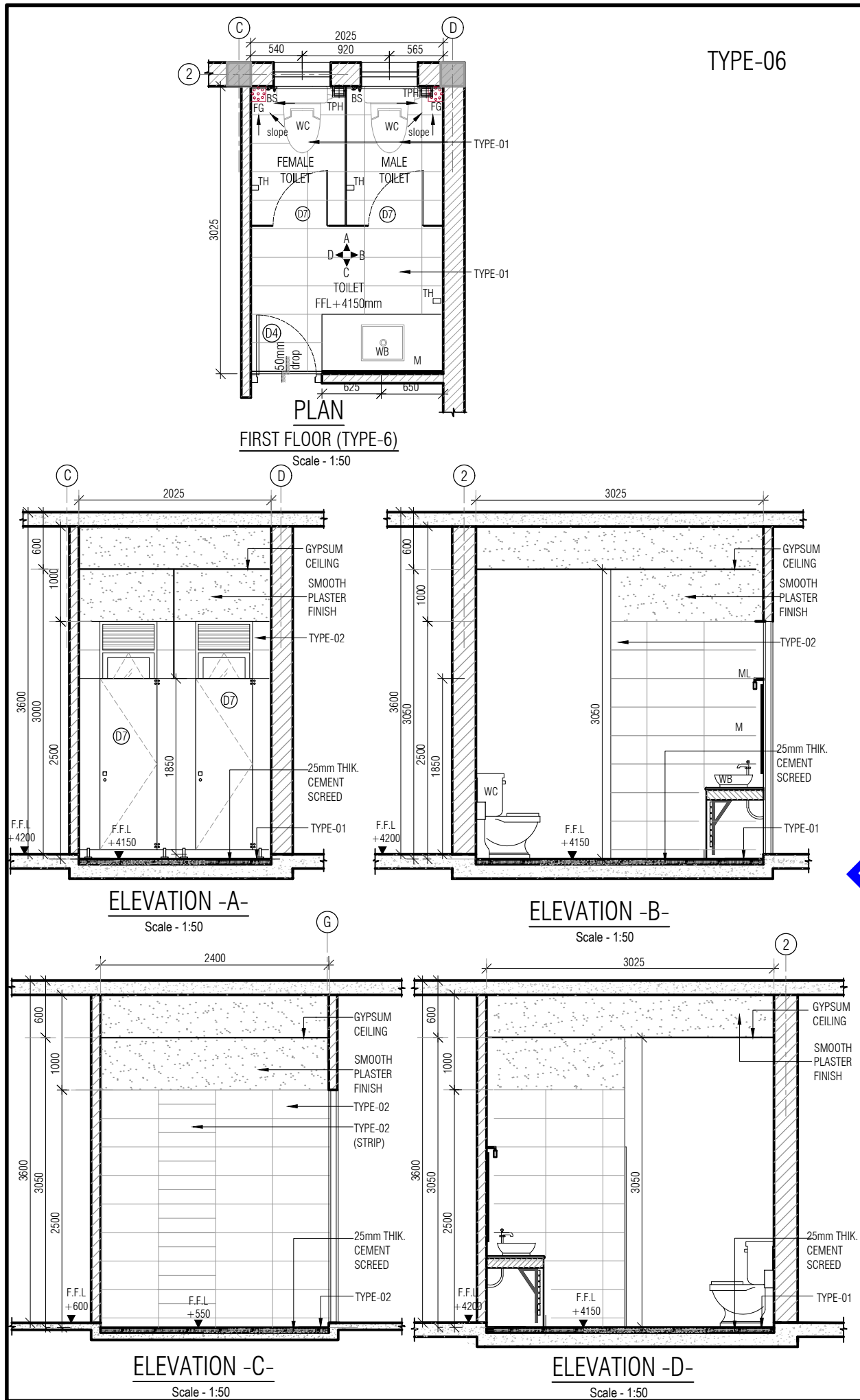


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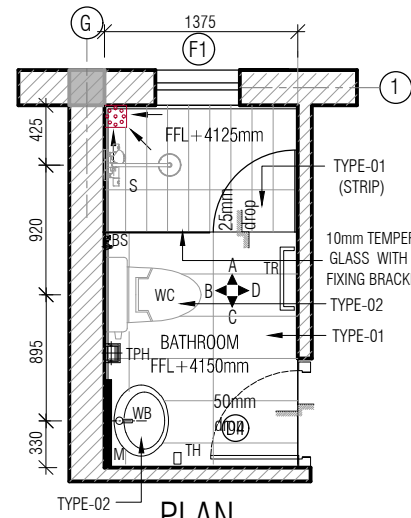
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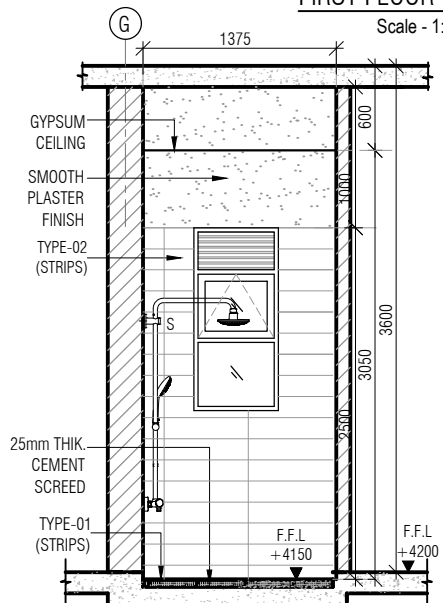
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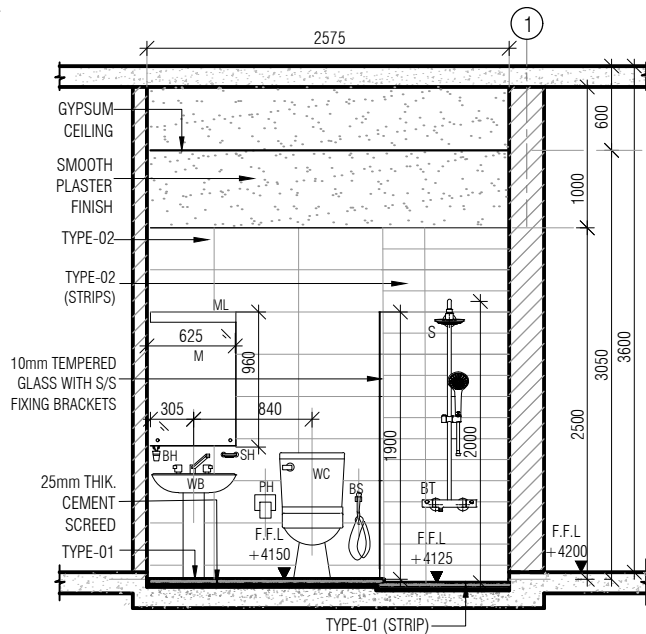
E I R O J					
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LEGEND WC - WATER CLOSET BS - BIDET SPRAY TPH - TOILET PAPER HOLDER BT - BIB TAP S - SHOWER FG - FLOOR GULLY TH - TOWEL HOOKS TR - TOWEL RAIL M - MIRROR ML - MIRROR LIGHT GS - GLASS SHELF WB/WM - WASH BASIN /WALL MOUNTED BH - BRUSH HOLDER SH - SOAP HOLDER					
Rev.	Date	Desd.	Description	Drawn	Chk'd App'd
CLIENT : PROJECT DIRECTOR, PROJECT MANAGEMENT UNIT, IWWRMP. PROJECT : ESTABLISHMENT OF IWWRMP REGIONAL OFFICE AT JAFFNA. TITLE : DETAILS OF TOILET - TYPE 06 & TYPE 07 (FIRST FLOOR) SRI LANKA LAND DEVELOPMENT CORPORATION NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 / +94 11 2867533 / +94 112862457 / +94 112863696 Fax : +94 11 2862457 / +94 112868001 E mail : mail@slrdc.lk web : www.landdevelopment.lk					
Project Architect	Mr. SADARUWAN	Recommended (A.G.M Architecture)-			
Drawn	ALM.RIZVI	Approved (D.G.M) -			
Checked D.O.A	Mrs. MIHRANI				
Cad file		Scale - AS SHOWN	Date - 03-07-2026		
Sheet size	Drawing no. A3	74/EIROI/P1/AR-WD/42	Rev. No. -	Sheet. No.-	



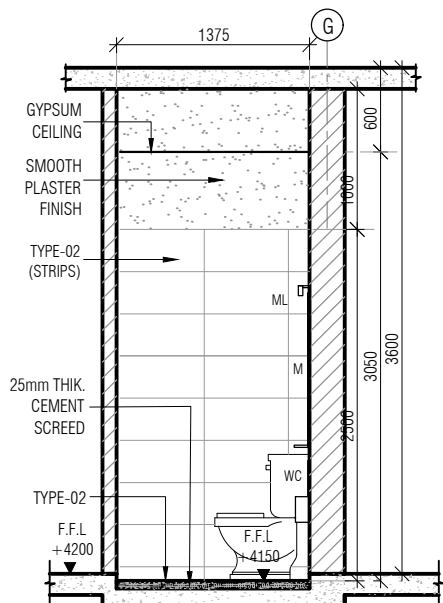
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FIRST FLOOR (TYPE-8)
Scale - 1:50



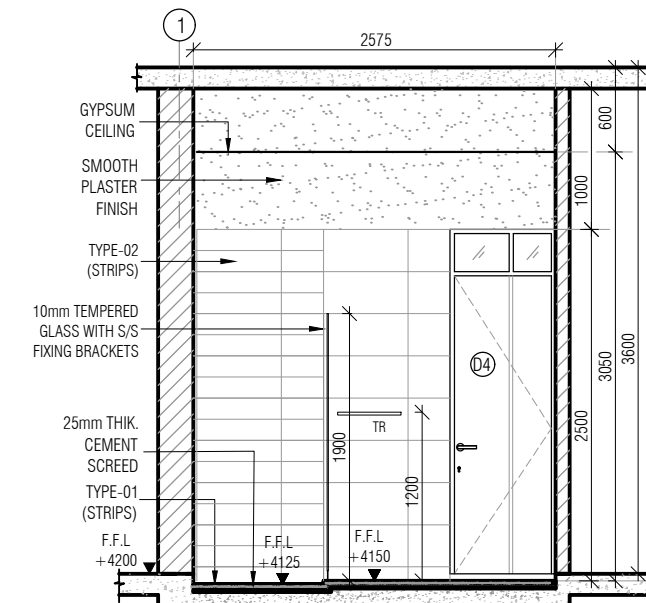
ELEVATION -A-
Scale - 1:50



ELEVATION -B-
Scale - 1:50

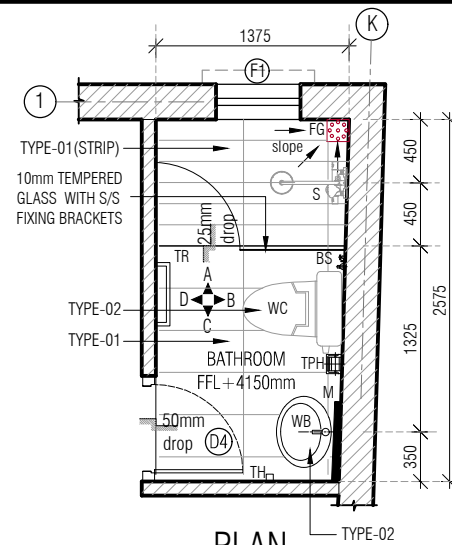


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Scale - 1:50

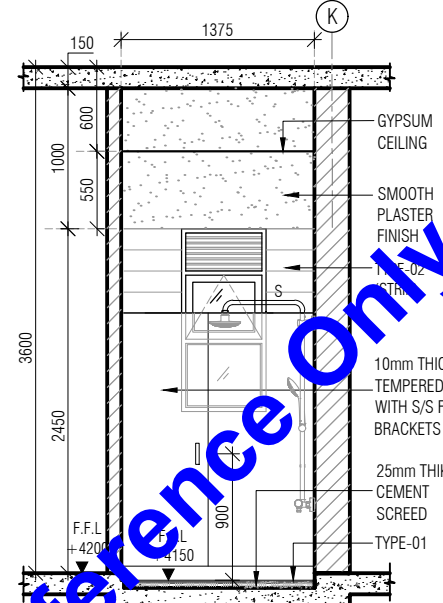


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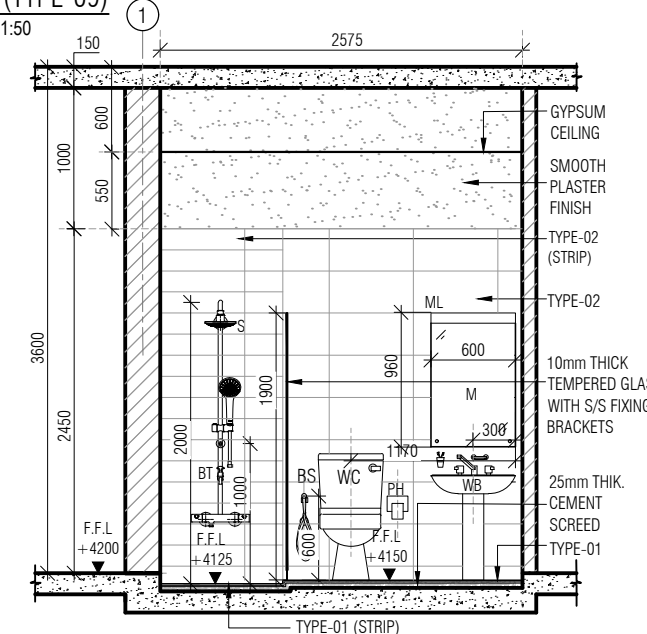
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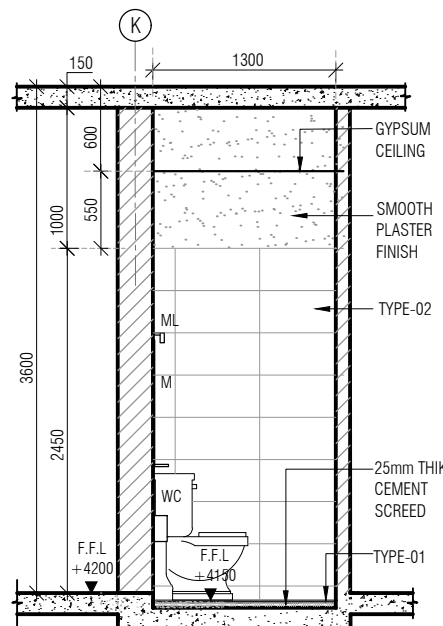
PLAN
FIRST FLOOR (TYPE-09)
Scale - 1:50



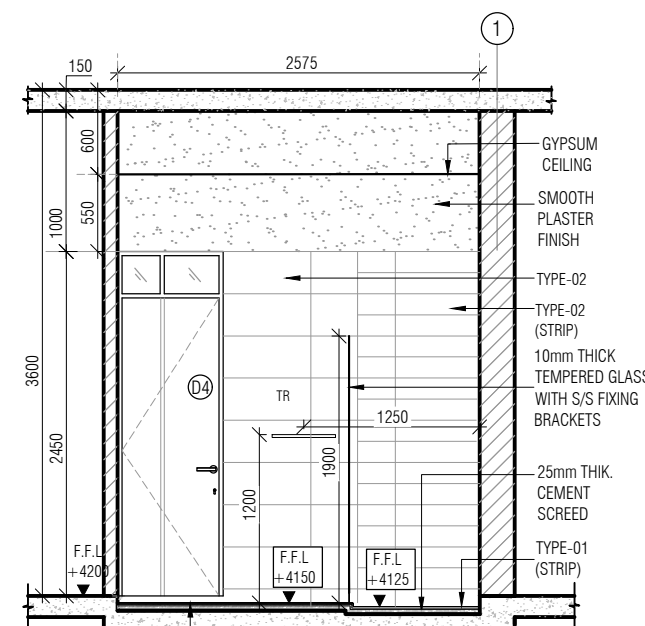
ELEVATION -A-
Scale - 1:50



ELEVATION -B-
Scale - 1:50



ELEVATION -C-
Scale - 1:50



ELEVATION -D-
Scale - 1:50

TYPE-09

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

LEGEND

- WC - WATER CLOSET
- BS - BIDET SPRAY
- TPH - TOILET PAPER HOLDER
- BT - BIB TAP
- S - SHOWER
- FG - FLOOR GULLY
- TH - TOWEL HOOKS
- TR - TOWEL RAIL
- M - MIRROR
- ML - MIRROR LIGHT
- GS - GLASS SHELF
- WB/WM - WASH BASIN /WALL MOUNTED
- BH - BRUSH HOLDER
- SH - SOAP HOLDER

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd

CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENT UNIT, IWWRM.

PROJECT : ESTABLISHMENT OF
IWWRM REGIONAL OFFICE AT JAFFNA.

TITLE : DETAILS OF TOILET -
TYPE 08 & TYPE 09
(FIRST FLOOR)

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELIKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
+94 11 2867533 / +94 11 2862457 / +94 11 2863696
Fax : +94 11 2862457 / +94 11 2868001
E mail : mail@lrdc.lk
web : www.landdevelopment.lk

Project Architect	Mr.SADARUWAN	Recommended (A.G.M Architecture)-
Drawn	ALM.RIZVI	Approved (D.G.M.)
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026
Sheet size	Drawing no. 74/EIROJ/P1/AR-WD/43	Rev. No. -
A3		Sheet. No. -

TYPE-10

E I R O J

DRAWING TYPE :
ARCHITECTURAL - WORKING DRAWINGS
PHASE - 1

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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LEGEND

- WC - WATER CLOSET
BS - BIDET SPRAY
TPH - TOILET PAPER HOLDER
BT - BIB TAP
S - SHOWER
FG - FLOOR GULLY
TH - TOWEL HOOKS
TR - TOWEL RAIL
M - MIRROR
ML - MIRROR LIGHT
GS - GLASS SHELF
WB/WM- WASH BASIN /WALL MOUNTED
BH - BRUSH HOLDER
SH - SOAP HOLDER

Rev.	Date	Desd.	Description	Drawn	Chk'd	App'd
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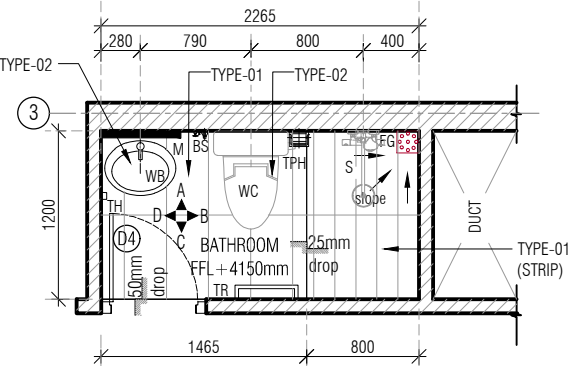
CLIENT : PROJECT DIRECTOR,
PROJECT MANAGEMENT UNIT, IWWRMP.

PROJECT : ESTABLISHMENT OF
IWWRMP REGIONAL OFFICE AT JAFFNA.

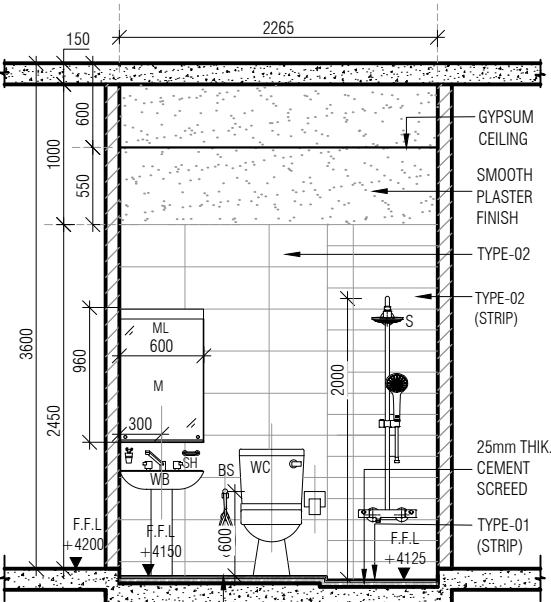
TITLE : DETAILS OF TOILET - TYPE 10
(FIRST FLOOR)

SRI LANKA LAND DEVELOPMENT CORPORATION
NO.03, SRI JAYAWARDENAPURA MAWATHA, WELUKADA, RAJAGIRIYA
T.P. : +94 11 2867369 / +94 11 2889485 / +94 11 2863705 /
+94 11 2867533 / +94 11 2862457 / +94 11 2863696
Fax : +94 11 2863457 / +94 11 2868001
E mail : mail@slldc.lk
web : www.landdevelopment.lk

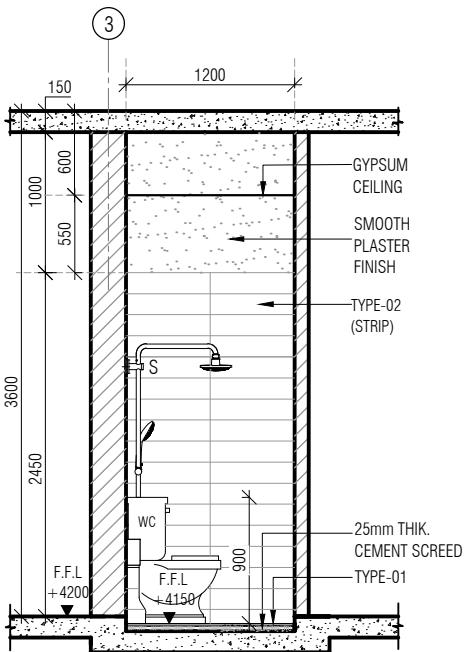
Project Architect	Mr.SADARUWAN	Recommended(A.G.M Architecture)-
Drawn	ALM.RIZVI	Approved (D.G.M) -
Checked D.O.A	Mrs. MIHIRANI	
Cad file		Scale - AS SHOWN Date - 03-07-2026 Rev. No. -
Sheet size	A3	Drawing no. 74/EIROJ/P1/AR-WD/44 Sheet. No.-



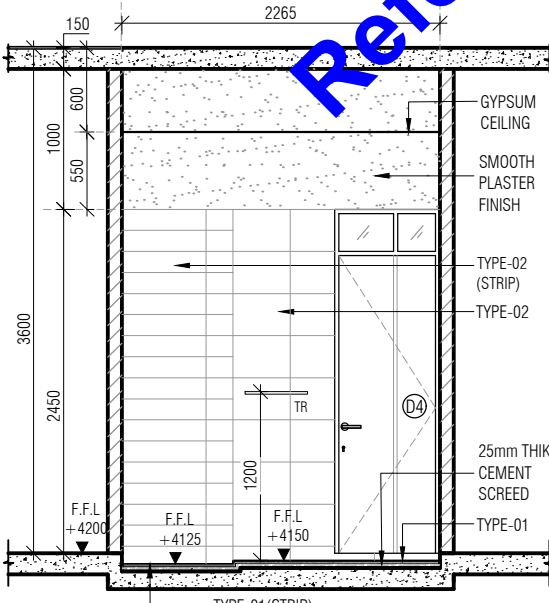
PLAN
SECOND FLOOR (TYPE-10)
Scale - 1:50



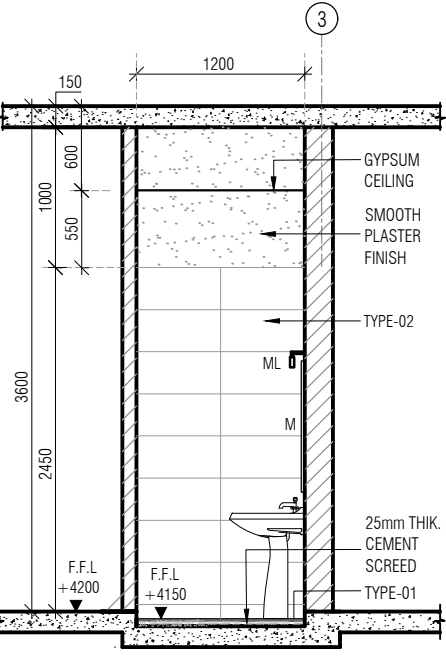
ELEVATION -A-
Scale - 1:50



ELEVATION -B-
Scale - 1:50



ELEVATION -C-
Scale - 1:50



ELEVATION -D-
Scale - 1:50

Section - 11

STANDARD FORMS (BID)

Form of Bid Security

Reference Only

FORM OF BID SECURITY

[this Guarantee form shall be filled in accordance with the instructions indicated in brackets]

----- [insert issuing agency's name, and address of issuing branch or office]

Beneficiary: Project Director
Integrated Watershed & Water resources Management Project,
Project Management Unit, 2nd Floor, Mahaweli Centre Building,
No. 96, Ananda Coomaraswamy Mawatha
Colombo 07.

Date: ----- [insert (by issuing agency) date]

BID GUARANTEE No.: ----- [insert (by issuing agency) number]

We have been informed that ----- [insert (by issuing agency) name of the Bidder] (hereinafter called "the Bidder") has submitted to you its bid dated ----- [insert (by issuing agency) date] (hereinafter called "the Bid") for the execution of 'Establishment of Provincial Groundwater Management Unit-Jaffna Region for Water Resources Board (Phase-I) ' under Invitation for Bids No. **LK-MOMDE-367174-CW-RFB** ("the IFB").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ----- [insert name of issuing agency] hereby irrevocably undertake to pay you any sum of moneys not exceeding in total an amount of ----- [insert amount in figures] ----- [insert amount in words]) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB") of the IFB; or
- (c) having been notified of the acceptance of its Bid by the Employer/Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) the successful bidder furnishing the performance security, otherwise it will remain in force up to ----- (insert date)

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date -----