

THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

**MINISTRY OF AGRICULTURE, LIVESTOCK, LANDS AND
IRRIGATION**



PROJECT MANAGEMENT UNIT

Integrated Watershed & Water Resources Management Project

**Bidding Documents
for**

**Renovation of Provisional Ground Water Management Unit
(GWMU) for Water Resources Board – Balance Work**

Contract No: LK-MOMDE-557503-CW-RFB

Issued: 06th 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 (IWRMP)**

Project No: P166865, Loan No: IDA-6621-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 (IWRMP 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 IWRMP Project, invites sealed bids from eligible and qualified bidders for the following **Works Contracts under Water Resources Board (WRB)** as given in the Table 01, on behalf of the Chairman, Project Procurement Committee of IWRMP Project.

Table 01

Contract Name (Contract No.)	Package No.	Description of Work / Contract Period	Registration Specialty	Bid Security and Validity Period	Non-Refundable Bid Document Fee (Rs.)	Average annual volume of construction work & the minimum amount of liquid assets and/or credit facilities (Rs.) (With VAT)
Renovation of Provincial Ground Water Management Unit (GWMU) for Water Resources Board – Balance Work – (LK-MOMDE-559503-CW-RFB)	1	Expansion of GWMU at Anuradhapura / 120 Days	Grade : C6 or above. Specialty: Building Construction	Bid Security Value: Rs.180,000.00 Validity: (105 days) Up to 18.10.2026	3,500.00	13 Mn & 3 Mn
	2	Expansion of GWMU at Vavuniya / 120 Days		Bid Security Value: Rs.200,000.00 Validity: (105 days) Up to 18.10.2026	3,500.00	14 Mn & 3 Mn
	3	Expansion of GWMU at Puttalam/ 120 Days		Bid Security Value: Rs.200,000.00 Validity: (105 days) Up to 18.10.2026	3,500.00	12 Mn & 2 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. Bidders are free to bid for more than one package, but selections will be made according to the capacity limits in CIDA registration.
4. The Bidding documents may be available for inspection in the <https://iwrmp.lk/web/procurement/section/procurement-notice> website for references.
5. Interested bidders may obtain further information from **Senior Project Specialist (Procurement & Contract)**, IWRMP 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 06.07.2026 to 24.07.2026 (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, IWRM Project, 2nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07. from 06.07.2026 to 24.07.2026 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 iwrrmp@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 Name (Contract No.)	Package No.	Description of Work /	Site visit	Pre bid meeting	Bid Closing and Opening (Date & Time)
Renovation of Provincial Ground Water Management Unit (GWMU) for Water Resources Board – Balance Work – (LK-MOMDE-559503-CW-RFB)	1	Expansion of GWMU at Anuradhapura	Date: 14.07.2026 Time: 09.00 a.m. Location : Water Resources Board Regional Office, Korakahawewa, Pandulagama, Anuradhapura (GPS :8.318229N,80.344408E)	Date: 16.07.2026 Time: 10.00 a.m. Location : Conference room, IWRMP/PMU 2nd Floor, Mahaweli Centre Building, No.96, Ananda Coomaraswamy Mawatha, Colombo 07.	Date: 27.07.2026 Time: 02.00 p.m. Location : Conference room, IWRMP/PMU 2nd Floor, Mahaweli Centre Building, No.96, Ananda Coomaraswamy Mawatha, Colombo 07.
	2	Expansion of GWMU at Vavuniya	Date: 14.07.2026 Time: 09.00 p.m. Location : Water Resources Board, Regional Office, Thekkawattha, Vavuniya. (GPS :8.740430N,80.344408E)		
	3	Expansion of GWMU at Puttalam	Date: 15.07.2026 Time: 09.00 a.m. Location : Water Resources Board, Regional Office, St.Mary's Mawatha. Senakudirippuwa, Puttalam. (GPS :8.02730N,79.84769797E)		

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, IWRM 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.
05.07.2026**

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

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

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: 2nd Floor, Mahaweli Centre Building, No.96, Ananda Coomaraswamy Mawatha, Colombo 07.
1.1	Scope of Works The works consist of Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board – balance Work under following three packages. i. Package 1 – Expansion of GWMU at Anuradhapura Concreting Plinth Beam, Block work & Plaster, Paving Works, Painting Works, Electrical Installation Work, Aluminium Work, Roofing Work, Iron Work, Plumbing Works, and Drainage Work. Located at Water Resources Board, Regional Office, Korakahawewa, Pandulagama, Anuradapura. Coordinates of the location : 8.318229N, 80.344408E ii. Package 2 – Expansion of GWMU at Vavuniya G.I barbed wire fence, Boundary wall for Front side, Drainage Work, Renovation of Accommodation, Construction of Security hut, and Construction of Water Tower, Located at Water Resources Board, Regional Office, Thekkawattha, Vavuniya. Coordinates of the location : 8.740430N, 80.344408E iii. Package 3 – Expansion of GWMU at Puttalam Painting works (Ground & First Floor), Electrical Installation Work (Ground Floor & First Floor), Block work & Plaster (1st Floor) Aluminium work(Ground & First Floor), Paving works(1st Floor),Reinforcement Concrete work (1st Floor), Block work & Plaster (1st Floor) and Roofing Work (1st Floor) Located at Water Resources Board, Regional Office, St.Mary's Mawatha, Senakudirippuwa, Puttalam. Coordinates of the location : 8.02730N, 79.84769797E
1.2	Time for Completion The Time for Completion for the whole of works shall be as follows. i. Package 1 – 120 Calendar Days ii. Package 2 – 120 Calendar Days iii. Package 3 – 120 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-contractors, 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 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.
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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 last five years • Experience in works of a similar nature and size for each of the last five years • Construction equipment • Staffing • Attach Work plan and methods;
4.2 (a)	CIDA registration required. The registration required; Specialty: Building Construction Grade: C6 or Above
4.2 (b)	Average annual volume of construction work performed in last 10 years (Including VAT) For Package 1 – at least Rs. 13 Million. For Package 2 – at least Rs. 14 Million. For Package 3 – at least Rs. 12 Million.
4.2 (c)	Experience in works of a similar nature and site for each of the last ten years (Including VAT) For Package 1 – at least Rs. 5 Million. For Package 2 – at least Rs. 6 Million. For Package 3 – at least Rs. 5 Million.

4.2 (d)

Essential equipment
Proposals for the timely acquisition (own, lease, hire, etc.) of the following essential equipment **shall be**;
For each of packages 1, 2 & 3.

No.	Equipment Type and Characteristics	Min. Number Required
1	Concrete mixers 1 m ³	1
2	Porker vibrators	1
3	Transport equipment / Tipper	1
4	Water Bowser with tank 5000 L Capacity	1
5	Mobile Generator	1
6	Plate Compactor	1
7	Rammer	1
8	Welding Plant	2
9	Submersible Pump (3")	1
10	Truck mounted crane	1

4.2 (e)

Qualifications and experience of the Project Manager and other Key personnel
For each of packages 1, 2 & 3.

Key personnel	Qualifications	No. of Position	Experience	Similar work Experience
1. Contract Manager	Engineering Degree or equivalent qualification in Relevant field	1	05 yrs	03 yrs
2. Site Engineer	B.Sc. (Civil Engineering) degree or equivalent	1	01 yrs	01 yrs
3. Environmental, Social, Health and Safety Officer	Degree or equivalent qualification in Relevant field	1	01 yrs	01 yr
4. Engineering Assistant (Civil)	NCT or equivalent	1	03 yrs	01 yr

The Bidder must demonstrate that it will have suitably qualified Contract 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 as follows. For Package 1 –Rs. 03 Million. For Package 2 –Rs. 03 Million. For Package 3 –Rs. 02 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 conducted as follow. i. Package 1; Date:14.07.2026 Time: 09.00 a.m. Location :Water Resources Board, Regional Office, Korakahawewa, Pandulagana, Anuradhapura. (GPS :8.318229N,80.344408E) ii. Package 2; Date:14.07.2026 Time: 03.00 p.m. Location :Water Resources Board, Regional Office, Thekkawattha,Vavuniya. (GPS :8.740430N,80.344408E) iii. Package 3; Date:15.07.2026 Time: 09.00 a.m. Location :Water Resources Board, Regional Office, St.Mary’s Mawatha, Senakudirippuwa, Puttalam. (GPS :8.02730N,79.84769797E)
10.1	Clarification of Bidding Documents Employer’s address for clarification of bidding documents is: Name of Officer: Project Director, Integrated Watershed & Water Resources Management Project Address: : 2nd Floor, Mahaweli Centre Building, No.96, Ananda Coomaraswamy Mawatha, Colombo 07. Phone: 0112 691163 E-mail: iwwrmp@slt.net.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 77 days from the bid submission deadline date. 20th September 2026
17.1	Amount of Bid security: The amount of Bid Securities are as follows in Sri Lanka Rupees: - For Package 1 –Rs. 180,000.00 - For Package 2 –Rs. 200,000.00 - For Package 3 –Rs. 200,000.00 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 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 105 days from the date of closing of the bids. 18th October 2026.

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 Venue, time, and date of the pre-bid meeting are as follows. Date: 16th July 2026 Time: 10.00 a.m. Venue: Conference room, IWWRMP/PMU, 2nd floor, Mahaweli Centre 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, 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-559503-CW-RFB
22.1	Deadline for submission of Bids Deadline for submission of Bids: 27th July 2026 Time: 14:00 hrs.
25.1	Bid opening. Venue, time, and date of bid opening. Venue: Conference room, IWWRMP/PMU, 2nd floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07. Time: 14:00 hrs. Date: 27th July 2026
31.1	Preference for Domestic Bidders: Not Applicable
32	If the Procurement is within the authority limit of a MPC: 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 25,000/= 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 <i>(date)</i>. 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. 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

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

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 : 2 nd Floor, Mahaweli Centre Building, No. 96, Ananda Coomaraswamy Mawatha, Colombo 07.
1.3	Contractor's name and address	Name: Address:
(*) 1.1.2.4 & 1.3	Engineer's name and address	Name: Chairman, Water Resources Board. Address : No.488A, Nawala Road, Koswatta, Rajagiriya.
	Engineer's Representative name and address	Name: Civil Engineer, Water Resources Board. Address : No.488A, Nawala Road, Koswatta, 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 120 <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, where the final effect of the aggregated variations exceeds 5% of the Contract Price
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 local 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 activities (e.g. excavation, earth works, bridge and structure works, stream and road diversions, quarrying or extraction of materials, concrete batching and asphalt manufacture). 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 including construction period, Defect Liability period and additional 28 days. 3% of the Initial Contract Price The ESHS Performance Security will be in the form of a “<i>demand guarantee</i>” in the amount(s) of 3% percent of the Accepted Contract Amount and in the same currency (ies) of the Accepted Contract Amount including construction period, Defect Liability period and additional 28 days.
4.2 Performance Security	Add the following. The Contractor shall obtain (at his cost) 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 be issued by a reputable bank selected by the Contractor and shall be in the form annexed to the Particular Conditions, as stipulated by the Employer in the Contract Data, or in another form approved by the Employer. 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, and 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 4.21 (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 (loss 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 defilement, or other violations involving children.
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6.8 Contractor's Personnel	Key Personnel			
	For each of packages 1,2 & 3.			
	Key personnel	Qualifications	No. of Position	Experience
	1. Contract Manager	Engineering Degree or equivalent qualification in Relevant field	1	05 yrs
	2. Site Engineer	B.Sc. (Civil Engineering) degree or equivalent	1	01 yrs
	3. Environmental , Social, Health & Safety Officer	Degree or equivalent qualification in Relevant field	1	01 yr
	4.Engineering Assistant (Civil)	Not or equivalent	1	03 yrs
	Sub-Clauses 6.8 (d) is amended by inserting “or” at the end:			
	“6.9 (d); or”			
	Sub-Clauses 6.8 (e) is inserted as follows:			
	“6.9 (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: “If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.” 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 joint measurement and annexed in Section 8																																							
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;”																																								
(*) 13.4(b)	Percentage for adjustment of Provisional Sums	10 %																																							
13.7 Adjustment for changes in Cost	Last paragraph “The weightings for each of the inputs of cost” shall be substituted by the following: “The weightings for each of the inputs of cost given in this Clause shall be adjusted only if they have been rendered unreasonable, unbalanced or inapplicable, as a result of Variations.”																																								
13.7	Weighting of Inputs	<table border="1"> <thead> <tr> <th>Indices No</th><th>Input Name</th><th>Input Percentage</th></tr> </thead> <tbody> <tr><td>L3</td><td>Unskilled Labour</td><td>4.17</td></tr> <tr><td>M4</td><td>Cement</td><td>19.25</td></tr> <tr><td>M6</td><td>Rubble</td><td>19.26</td></tr> <tr><td>M8</td><td>Sand</td><td>6.30</td></tr> <tr><td>M9</td><td>Brick</td><td>8.83</td></tr> <tr><td>M17</td><td>Asbestos Ceiling Sheet</td><td>2.89</td></tr> <tr><td>M20</td><td>PVC Pipe</td><td>3.34</td></tr> <tr><td>M28</td><td>Electrical Fittings</td><td>6.18</td></tr> <tr><td>M36</td><td>Aluminium Door/Window</td><td>15.61</td></tr> <tr><td>P1</td><td>Small Equipment</td><td>4.17</td></tr> <tr><td colspan="2"></td><td></td></tr> <tr> <td colspan="2">Total</td><td>90%</td></tr> </tbody> </table> Nonadjustable element shall be: All Psum & Lsum items	Indices No	Input Name	Input Percentage	L3	Unskilled Labour	4.17	M4	Cement	19.25	M6	Rubble	19.26	M8	Sand	6.30	M9	Brick	8.83	M17	Asbestos Ceiling Sheet	2.89	M20	PVC Pipe	3.34	M28	Electrical Fittings	6.18	M36	Aluminium Door/Window	15.61	P1	Small Equipment	4.17				Total		90%
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(*) 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. Further, the payment is subjected to the Engineer’s Recommendation.																																							

(*) 14.3(c)	Percentage of retention	10 %
(*) 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 e.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/s).	
(*)14.8	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 full retention money with an unconditional guarantee acceptable to the Employer to a value equal to the full 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 full 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.

(*) 18.2	Third Party 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>110% of the 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</td><td>Rs 50,000/-</td></tr> <tr> <td>(d) for personal injury or death:</td><td></td><td></td></tr> <tr> <td> (i) of the Contractor's employees per event</td><td>Rs 1,000,000 per employee</td><td>No Deductible</td></tr> <tr> <td> (ii) of other people per event</td><td>Rs 1,000,000 per person</td><td>No Deductible</td></tr> </tbody> </table>		Minimum Insurance Amount	Maximum Deductible	(a) for the works, Plant and materials:	110% of the 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	Rs 50,000/-	(d) for personal injury or death:			(i) of the Contractor's employees per event	Rs 1,000,000 per employee	No Deductible	(ii) of other people per event	Rs 1,000,000 per person	No Deductible
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	<u>Clause 19.0 Claims, Disputes and Arbitration</u> Delete existing sub-clause 19.2 (Dispute Resolution), Delete existing sub-clause 19.3 (Procedure for Adjudication), Delete existing sub-clause 19.4 (Replacement of Adjudicator), Delete existing sub-clause 19.5 (Arbitration), and insert the following new sub-clauses; 19.2 Appointment of the Dispute Adjudication Board 19.3 Failure to Agree on the Composition of the Dispute Adjudication Board 19.4 Obtaining Dispute Adjudication Board's Decision 19.5 Failure to Comply with Dispute Adjudication Board's Decision 19.6 Expiry of Dispute Adjudication Board's Appointment 19.7 Arbitration																						

19.2	Appointment of the Dispute Adjudication Board	Any dispute of whatever nature arising out of or in relation to this agreement shall in the first instance be referred to a Dispute Adjudication Board (DAB) for decision in accordance with Sub-Clause 19.4 [Obtaining Dispute Adjudication Board's Decision]. The Parties shall appoint a DAB within 28 Days from the Commencement Date. The DAB shall comprise, three suitably qualified persons ("the members"), who shall be professionals experienced in the type of construction involved in the Works and with the interpretation of contractual documents, one of whom shall serve as chairman. Within 28 Days from the Commencement Date each of the Parties shall appoint one member to serve on the Dispute Adjudication Board (DAB). The Parties shall consult both these members and shall agree upon the third member, who shall be appointed to act as the chairman. The agreement between the Parties and each of the three members shall incorporate by reference the General Conditions of Dispute Adjudication Agreement contained in the Appendix to these Contract Data, with such amendments as are agreed between them. The terms of the remuneration of the three members, including the remuneration of any expert whom the DAB consults, shall be mutually agreed upon by the Parties when agreeing the terms of appointment of the member or such expert (as the case may be). Each Party shall be responsible for paying one-half of this remuneration If a member declines to act or is unable to act as a result of death, disability, resignation or termination of appointment, a replacement shall be appointed in the same manner as the replaced person was required to have been nominated or agreed upon, as described in this Sub-Clause. The appointment of any member may be terminated by mutual agreement of both Parties, but not by the Employer or the Contractor acting alone. Unless otherwise agreed by both Parties, the appointment of the DAB (including each member) shall expire when the discharge referred to in Sub-Clause 14.11 [Discharge] shall have become effective.
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19.3	Failure to Agree on the Composition of the Dispute Adjudication Board	If any of the following conditions apply, namely: (a) either Party fails to nominate a member of a DAB by such date, (b) the Parties fail to agree upon the appointment of the third member (to act as chairman) of the DAB by such date, or (c) the Parties fail to agree upon the appointment of a replacement person within 42 Days after the date on which the one of the three members declines to act or is unable to act as a result of death, disability, resignation or termination of appointment, Then Institute for Construction Training and Development (ICTAD) shall, upon the request of either or both of the Parties and after due consultation with both Parties, appoint this member of the DAB. This appointment shall be final and conclusive. Each Party shall be responsible for paying one-half of the expenses / disbursements incurred by ICTAD.
19.4	Obtaining Dispute Adjudication Board's Decision	If a dispute (of any kind whatsoever) arises between the Parties in connection with, or arising out of, the Contract or the execution of the Works, including any dispute as to any certificate, determination, instruction, opinion or valuation of the Engineer, either Party may refer the dispute in writing to the DAB for its decision, with copies to the other Party and the Engineer. Such reference shall state that it is given under this Sub-Clause. The DAB shall be deemed to have received such reference on the date when it is received by the chairman of the DAB. Both Parties shall promptly make available to the DAB all such additional information, further access to the Site, and appropriate facilities, as the DAB may require for the purposes of making a decision on such dispute. The DAB shall be deemed to be not acting as arbitrator(s).

		Within 84 Days after receiving such reference, or within such other period as may be proposed by the DAB and approved by both Parties, the DAB shall give its decision, which shall be reasoned and shall state that it is given under this Sub-Clause. The decision shall be binding on both Parties, who shall promptly give effect to it unless and until it shall be revised in an amicable settlement or an arbitral award as described below. Unless the Contract has already been abandoned, repudiated or terminated, the Contractor shall continue to proceed with the Works in accordance with the Contract. If either Party is dissatisfied with the DAB's decision, then either Party may, within 28 Days after receiving the decision, give notice to the other Party of its dissatisfaction and intention to commence arbitration. If the DAB fails to give its decision within the period of 84 Days (or as otherwise approved) after receiving such reference, then either Party may, within 28 Days after this period has expired, give notice to the other Party of its dissatisfaction and intention to commence arbitration. In either event, this notice of dissatisfaction shall state that it is given under this Sub-Clause and shall set out the matter in dispute and the reason(s) for dissatisfaction. Except as stated in Sub-Clause 19.5 [Failure to Comply with Dispute Adjudication Board's Decision] and Sub-Clause 19.6 [Expiry of Dispute Adjudication Board's Appointment], neither Party shall be entitled to commence arbitration of a dispute unless a notice of dissatisfaction has been given in accordance with this Sub-Clause. If the DAB has given its decision as to a matter in dispute to both Parties, and no notice of dissatisfaction has been given by either Party within 28 Days after it received the DAB's decision, then the decision shall become final and binding upon both Parties.
19.5	Failure to Comply with Dispute Adjudication Board's Decision	In the event that a Party fails to comply with a DAB decision which has become final and binding, then the other Party may, without prejudice to any other rights it may have, refer the failure itself to arbitration under Sub-Clause 19.7 [Arbitration]. Sub-Clause 19.4 [Obtaining Dispute Adjudication Board's Decision] shall not apply to this reference.

19.6	Expiry of Dispute Adjudication Board's Appointment	If a dispute arises between the Parties in connection with, or arising out of, the Contract or the execution of the Works and there is no DAB in place, whether by reason of the expiry of the DAB's appointment or otherwise: (a) Sub-Clause 19.4 [Obtaining Dispute Adjudication Board's Decision] shall not apply, and (b) the dispute may be referred directly to arbitration under Sub-Clause 19.7 [Arbitration].
19.7	Arbitration	(a) Any dispute of whatever nature arising from, out of or in connection with this agreement, on the interpretation thereof, or the rights, duties, obligations or liabilities of any Party, or the operation, breach, termination, abandonment, forfeiture or invalidity thereof, shall be referred to by either Party to arbitration for final settlement, in accordance with the Arbitration Act No. 11 of 1995, or any amendment thereof, (b) Pending the award in any arbitration proceedings hereunder, (i) this Contract and the rights and obligations of the Parties shall remain in full force and effect and (ii) each of the Parties shall continue to perform their respective obligations under this Contract. The termination of this Contract shall not result in the termination of any arbitration proceedings pending at the time of such termination nor otherwise affect the rights and obligations of the Parties under or with respect to such pending arbitration. (c) Any award rendered by the arbitral tribunal shall determine the extent to which the cost of arbitration is to be borne by each Party. The arbitration centre charges and the compensation to the arbitrator shall be equally shared by the Parties initially.

		Composition of the Arbitral Tribunal : The arbitral tribunal shall consist of a sole arbitrator who shall be appointed in the manner provided in the Selection Procedure as given below. Selection Procedure : The Party desiring arbitration shall nominate three arbitrators out of which one to be selected by the other Party within 21 Days of the receipt of such nomination. If the other Party does not select one to serve as Arbitrator within the stipulated period, then the Arbitrator shall be appointed in accordance with the Arbitration Act No. 11 of 1995, or any amendments thereof. Venue & Language : The venue of arbitration shall be in Sri Lanka. Unless otherwise agreed to by the Parties the proceedings shall be conducted and the award shall be rendered in the English language.
	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 “EAB” (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 expense 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..

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 as 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 does 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.

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, topsoil 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 bowlers, 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

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 **Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board -Balance Work (LK-MOMDE-404449 -CW-RFP)** at 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 requested 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 **Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board -Balance Work - (LK-MOMDE-404449 -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-557503 CV-RFB** dated ----- with you, for the ----- *[insert "construction"]* of **Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board -Balance Work** (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. _____ dated _____ with the Beneficiary, for the execution of _____ (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.

[signature(s)]

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

¹The 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."

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-557505-CV-RFB** dated ----- with you, for the **Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board -Balance Work.** (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-MOMR-557503-CW-RFB** *[reference number of the contract]* dated ----- with you, for the execution of **Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board -Balance Work** (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, when the works have being 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 sum 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(s) 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)

Reference Only

Section - 6
Specifications

Technical Specifications relevant to this contract consist of two parts.

Part 1 - General Technical Specifications

1.Specifications for Building Works - Volume I

CIDA Publication No. SCA/4/I. - 3rd Edition (Revised)] July 2004

2.Specifications for Building Works - Volume II

CIDA Publication No. SCA/4/II [Revised Edition October 2001)

3.Relevant British (BS) British European (BSEN) Standards

These publications are not issued with the Bidding Documents package and the Bidder/Contractor should obtain them from a suitable source.

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 (ICTAD), 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	3
Site installation, Services, and environmental obligations	3
Safety and health precautions	8
Design documents, Construction and As Built Drawings	10
Site supervision, Construction Schedule, and reporting	11
Preparation of As-built drawings	7
Setting Out Works	16
Environmental and Social Management Plan	36

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.

2. 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.

3. 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
- Topographic surveys and 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.

4. Site Installation, Services and Environmental Obligations

4.1 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 such as access roads, temporary construction roads or temporary working platforms.
- b) Stores, Warehouses, Materials Yards.
- c) Materials testing laboratory.
- d) Construction equipment.
- e) Power supply and illumination.
- f) Water supply.
- g) Sanitation, sewerage and waste disposal.
- h) Communication System.
- i) Site security

All installations of any Subcontractors shall comply with these Specifications.

4.2 Submittals

Within 30 days from the date of contract award the Contractor shall submit to the Engineer updated layout plans showing, at adequate scale, the locations and arrangement of all site installations. These plans shall be consistent with the plan submitted by the Contractor with his Bid as well as with any amendments and additions.

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 his 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.

4.3 Prior to construction works

The Contractor shall carry out all necessary surveying 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.

4.4 Access works

The construction and maintenance of permanent and temporary access roads or access ramps 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.

4.4.1 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.

4.4.2 Construction of Additional Roads

The Contractor shall design, construct, and maintain all temporary access and haul roads to, in, and around his camp area, the various working sites and designated borrow and disposal areas, required for the Works. These roads shall include all associated drainage and stream crossing facilities. The location of these roads shall be in accordance with the Contractor's proposals submitted with his Tender.

During the period of the Contract, the Contractor shall allow the Employer and such other parties free and unrestricted use of all access and haul roads and shall not restrict the access of authorized persons to these roads, look-outs or viewing points as may be instructed.

4.5 Contractor's Offices, Camp and Facilities

4.5.1 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 dam site. Site offices may be mobile field offices so that, when work at one site is complete, the office may be moved to another site. The Engineer will allocate a portion of the Works area at the dam site where 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.

4.5.2 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.

The Contractor shall appoint a Camp Manager who shall be responsible for the administration and maintenance, and for all matters relating to the allocation of space, discipline and use of buildings and 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.

4.5.3 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

4.6 Temporary Works

4.6.1 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.

4.6.2 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.

The Contractor shall also obtain any necessary approval from local statutory or other Government authorities before commencing construction. Such work shall not be started without prior approval.

4.7 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

4.8 Utilities

4.8.1 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.

4.8.2 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.

4.8.3 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.

4.9 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.

Buildings and facilities removed from the Site will become the Contractor's property. Foundations of buildings and structures shall be broken up and removed from the Site.

4.10 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.

4.11 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.

5. Safety and Health Precautions

5.1 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.

5.2 Safety precautions

5.2.1 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.

5.2.2 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:

5.2.3 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 post is not permitted.

5.2.4 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

5.2.5 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.

Roads which will be closed to traffic shall be protected by effective barricades on which acceptable warning and detour signs shall be placed. All barricades and all lights shall be kept burning from sunset to sunrise.

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.

The Contractor shall submit his weekly activities schedule and the locations of his work along the existing public roads to the authorities concerned and obtain all necessary approvals prior to commencement of the respective work.

The Contractor shall provide temporary passes and bridges to give an access to the existing villages, houses, etc., to the satisfaction of the Engineer and the authorities concerned whenever he disturbs such existing ways during the execution of the works.

5.3 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.

5.4 Health precautions

5.4.1 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.

5.4.2 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.

6. Design Documents and Construction Drawings

6.1 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.

6.2 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. The Contractor shall ensure that design work is only allocated to personnel with adequate qualifications and relevant experience to perform the required tasks whereby drawings and calculations shall be signed by qualified personnel responsible for the design. All drawings and calculations submitted for approval shall be signed, checked, and signed by the Contractor prior to submission.

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.

6.3 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 revisions 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:

- 2 prints of each drawing to the Engineer.
- 2 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.

7. Site Supervision, Construction Programme and Reports

7.1 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.

7.2 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. If such a change in the program affects the Engineer's design and the drawing approval program, the Employer will not be responsible for the consequences of the late issue of any drawings, which are attributable to that change.
- 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.

7.3 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 duration and recorded water levels of the Tank.
- ✓ 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, shipping 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.

8. Setting out Works

8.1 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.

8.2 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.

8.3 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.

8.4 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.

8.5 Permanent Survey Pillars

Using the existing temporary benchmarks shown on the Drawings the Contractor shall establish permanent survey pillars sufficient to define the control survey and as directed. The permanent survey pillars shall be linked to the national map grid and their coordinates shall be shown on the As-Built Drawings.

Establishment of these permanent survey pillars shall be undertaken before any of the existing survey point markers are destroyed by the Contractor's operations.

8.6 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.

9. 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. (Annexure I)

9.1 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.

9.2 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.

9.3 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.

9.4 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.

9.5 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.

9.6 Standard Procedure for Ensuring Occupational Health and Safety When working in Wildlife Area

The Contractor shall comply with the provisions in the Standard Procedure for Ensuring **Occupational Health and Safety When working in Wildlife Area** annexed in this section without any cost to Employer. (Annexure II)

9.7 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. (Annexure III)

9.8 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. (Annexure IV)



Annexure II

Integrated Watershed and Water Resources Management Project (IWWRMP)

Standard Procedure for Ensuring Occupational Health and Safety When working in Wildlife Area



July, 2026

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6. Precautional actions
 - 6.1 Precautions against bees/ wasp stings/bites
 - 6.2 Precautions against large mammals
 - 6.3 Precautions against snake bites
 - 6.4 Precautions against crocodiles attacks
7. General conditions of workers
8. Personal Protective Equipment needed

1. Purpose

Workers who are working in wildlife or forest areas can be exposed to wildlife threats. Therefore, persons working in these areas need to strictly follow the guidelines and regulations given by the relevant authority. To fulfill this requirement, contractors and workers will have to follow the occupational health and safety guideline covered in this document during their working period in the wildlife/ forest areas.

2. Common hazards that may occur when working in Wildlife areas

1. Infectious diseases transmission from mosquito or small animal bites.
2. Swelling, mild or severe allergic reactions from stinging insects.
3. Swelling, mild or severe allergic reaction or death from snake bites.
4. Serious injury or death from contact with large mammals or reptiles.

3. Planning for Occupational Health and Safety (OHS).

1. Review identified area, its nature, jurisdiction, conservation status and relevant authority.
2. Plan to get relevant authorization and get clear idea about given conditions and required OHS measures.
3. Purchasing of relevant safety equipment. (Example – Personal Protective Equipment)
4. Provide necessary trainings to staff. (Example – First Aid, emergency protocols)
5. Appoint a person to supervise OHS.

4. Safe Operating Procedure

4.1 General procedures

4.1.1 Obtain conditional approval from authorized agency (Example – Department of Wildlife Conservation / Forest Department).

4.1.2 Understand the given conditions and take action to aware all workers (including drivers and supporting staff) on the given conditions.

4.1.3 Obtain the service of 01 or 02 officers from relevant authorized agency and always accompany them to relevant sites and work under their supervision and guidance.

4.1.4 If any risks or danger is anticipated , felt or identified in the area of work, immediately take action to inform authorized persons and get their direction.

4.2 Common preparedness

- 4.2.1 Be aware of working area and current conditions and history. (Example –elephant attacks / crocodile attacks)
- 4.2.2 Always carry a mobile phone or some communication system. (In some protected areas of Sri Lanka, there is no mobile phone coverage).
- 4.2.3 Select suitable vehicles, at least two vehicles should be mobilized (good condition, 4-wheel, toolbox, tire ropes and winch, etc.). Persons will not engage in any activities alone.
- 4.2.4 Always bring a first aid box/ stretcher.
- 4.2.5 Be aware of nearest hospital and nearest route.
- 4.2.6 Be equipped with enough clean drinking water for workers.

5. Common protocol to follow

1. Be aware of your surroundings, and note any wild or suspicious acting animals in your working area.
2. Identify and be aware about wild animal active times and try to avoid those times.
3. Avoid reaching or stepping into or over hidden areas that may contain wildlife.
4. Be aware of signs that indicate above or below ground animal nests. Also take appropriate action to prevent contaminations of these areas.
5. Avoid direct contact with birds, bats, or other animal droppings.
6. Avoid direct contact with animal blood. If contact cannot be prevented, wear rubber gloves and dispose properly.
7. Do not feed any wild animal.
8. Do not capture / harm wild life or plant species and do not collect anything from protected area. (Example fallen animal horns, bones, tusks (ivory), etc.).
9. Set fire under (if necessary) should do under supervision of wildlife officers and after use take action to completely extinguish it.
10. Allocate one person to be on guard/vigilance while other workers are at work

6. Precautional actions

6.1 Precautions against bees/ wasp stings/bites

- 6.1.1 Awareness about working areas and presence of bee hives or wasp nests .
- 6.1.2 Do not wear perfumes, colognes, scented soaps or powders.
- 6.1.3 Tuck pants into your socks or working boots.
- 6.1.4 Wear safety hats with face protecting net.
- 6.1.5 Do not make more noise than necessary when working.
- 6.1.6 Establish safety cage with enough space. (If possible)
- 6.1.7 Provide safety kit for workers
- 6.1.8 If you decided to remove bee/ wasp nest from working site, the authorized agency (example Department of Wildlife Conservation - DWLC) should be informed and their concurrence and assistance should be sought prior to implementation.
- 6.1.9 Always consult and take a service from qualified pest-removal expert. (Example – Bee conservation Society of Sri Lanka)

6.2 Precautions against large mammal attacks

- 6.2.1 Be aware of working site, access routes etc.
- 6.2.2 Be aware on animal movement routes, times, nature of the animals etc.
- 6.2.3 Try to avoid contact with wild animals. (Example – use an alternative route)
- 6.2.4 Request wildlife officers to bring/provide safety equipment (Example - Thunder-flashes).

6.3 Precautions for prevention of snake bites

- 6.3.1 Be vigilant and aware of working area.
- 6.3.2 Always wear safety boots.
- 6.3.3 Do not put hands or legs into hidden holes, anthills or any hidden spots.
- 6.3.4 Do not touch dead or live snakes.

6.4 Precautions for prevention of crocodile attacks

- 6.4.1 Be vigilant and aware of working area on crocodile signs (Example – foot prints, scats, hiding holes etc.) and if those signs are available immediately inform to authorized officials and get their advises.
- 6.4.2 Do not put your hands or legs in to crocodile hiding holes / do not enter into crocodile hiding holes.
- 6.4.3 Do not enter into unsafe water.
- 6.4.4 If you need to work in open waters, establish protective cages.
- 6.4.5 Observe the working area thoroughly before entering in to open waters or protective cages.

7. General Conditions of workers

- 1. Workers should be in good health condition.
- 2. Should agree to follow given conditions and safety measures given from time to time and unexpected conditions.
- 3. Do not consume alcohol while working.
- 4. Always pay attention to surroundings.
- 5. Always stay as a group.
- 6. Do not litter.
- 7. Aware of all Do's and Don'ts. (Contractor and supervision officers are responsible for this).
- 8. Establish temporary signboards on Do's and Don'ts at working sites.

8. Personal Protective Equipment need to used

- 1. Insect repellant
- 2. Long-sleeved shirts and pants (Jungle green/ dark color)
- 3. Safety boots
- 4. Insect spray designed for bees/wasps/hornets
- 5. Safety hats with face protector (specially protect from bees and wasps)
- 6. Life jackets/ raincoats.
- 7. Lifesaving equipment for working in water.
- 8. Re-chargeable torches / lighting equipment.



**Integrated Watershed and Water
Resources Management Project
(IWW/RMP)**

**Standard Procedure for Assessing the
Requirement of Tree Removals**

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 / approval (responsibility of Implement Agency)

- 3.1 The finalized tree removal list shall be shared with relevant approving officers/ agencies like Grama Niladha, 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.

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 Irrigation

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



July 2026

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 labors/ 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 displaced.	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	-
			Equipment (including power tools) should store properly, listed and assigned a person to issuing and receiving.	Contractor	Weekly

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
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. Dust emission from earth works (when operating) should be 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. from 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/complaints and actions taken to resolve them.	Contractor	Weekly
			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	

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			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 a labor code of conduct and translate 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 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 with danger/ risk activities.	Contractor	Daily
		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

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
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 on controlling communicable diseases within camps and to outside 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
			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	Contractor/ Site engineer	-

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			Public Health Officer (PHI).		
			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, washrooms, 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 from the work site. Temporary toilet pits should treat and demolish accordance to approved health guidelines. Approved site restoration actions should implement.	Contractor/IA/PMU	-

Sample Code of Conduct

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 images 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.

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: _____

Reference Only

Section - 7

Form of Bid

Section 7 - FORM OF BID

Name of Contract: ***Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board – Balance Work***
 Contract No.: ***LK-MOMDE-557503-CW-RFB***

To: Project Director, Integrated Watershed & Water Resources Management Project
 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 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)
[insert year]	[insert amount and percentage]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for suspension or termination: [indicate main reason(s) e.g. for GBV/ SEA breaches]	[insert amount]
...	...	[list all applicable contracts]	...

Performance Security called by an employer(s) 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>

8. 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 in the capacity of

duly authorized to sign bids for and on behalf of
[in block capitals or typed]

Address:

Witness:

Reference Only

Section – 8
Bill of Quantities

Reference Only

Schedules

Preamble to the Bill of Quantities
Description of Items and Measurement Methods
Bill of Quantities

Preamble to the Bill of Quantities - Applicable for Package for Balance Work of Remaining construction works at Anuradhapura, Puttalam and Vavuniya for PGMU for WRB

- 1.1 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.
- 1.2 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. 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.
- 1.3 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.
- 1.4 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.
- 1.5 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 irrigation flow requirement, rainfall and surface runoff, groundwater, wave action and the like. This includes all and any dewatering operations necessary for the execution of the Works as well as coffer damming if required.
 - 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 surveys including provision of boats and survey instruments, 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.
- 1.6 Where Bill of Quantities items describe the replacement of existing equipment or components, including mechanical and electrical equipment, the equipment removed remains the property of the Employer, unless stated otherwise in the contract documents. The rates entered shall include for delivery of such equipment to the Employer or for disposal if so directed by the Employer.
- 1.7 The whole cost of complying with the provisions of the Contract (excluding VAT) 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.
- 1.8 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.
- 1.9 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 Clause 37 of the Conditions of Contract.
- 1.10 The method and unit of measurement of completed work for payment shall be in accordance with the method described in the specifications for each item or in the Bill of Quantities. For Lump Sum items, measurements for Interim Payment Certificates shall be based on percentage completion of such item of work or milestone as per the Contractor's proposed schedule of monthly payments, as approved by the Engineer.

Descriptions of Items and Measurement Methods - Package for Balance Work of Remaining construction works at Anuradhapura, Puttalam and Vavuniya for PGMU for WRB

INTRODUCTION

The descriptions of the different items in the Bills of Quantities and the method adopted for measurements are indicated in the following paragraphs.

The quantities shall be computed using dimensions from the drawings based on the pre-construction surveys or as varied by the Engineer, except where clearly stated otherwise under the following individual items. No allowance shall be made for settlement, bulking, shrinkage, or waste.

Bill No. A - Preliminaries

1.1 Insurances and Securities

Sub Item 1.1.1 Provisional Sum for Providing a Performance Security and Advance Payment Security

The item provides for the provision of Performance Security as specified in Clause 4.2 of the Conditions of Contract.

Payments for the item will be certified based on the actual invoice given by the bank including 5% overhead when the Performance Security and Advance Payment Security in the specified format has been provided and accepted by the Employer.

Sub Item 1.1.2 Provisional Sum for Insurance of works, Machinery & Equipment, Plant, Materials, third party persons & property and Employer's personal & property at site and Insurance against accidents and injury to contractor's personal as per the contract as per contract

The sub items provide for the provision of the different types of insurances as specified in Clause 18 of the Conditions of Contract.

Payment for each type of insurance will be certified when the respective insurance policies from acceptable insurance companies together with full payment of the premium including 5% overhead has been submitted to and accepted by the Employer.

1.2 Contractors Requirements

Sub Item 1.2

.1 Allow lump sum for constructing maintaining, dismantling and removal on completion of the Works, a temporary site office

The sub items provides for constructing maintaining, dismantling and removal on completion of the Works, a temporary site office of adequate size including staff rest room and toilets and other facilities for the Contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.

60 % of the L.sum under this item will be certified on establishment of all planned facilities balance of 30% for maintenance and the balance of 10% for when they have been removed and site cleaned on completion of the work. All items established under this item will remain the property of the Contractor.

Payments for maintenance under this item shall be included in the part payment certificates from the time the facilities have been established until completion.

Sub Item 1.3.2 Allow lump sum for constructing maintaining, dismantling and removal on completion of the Works, buildings to be used as workshops and stores

The sub item provides for constructing maintaining, dismantling and removal on completion of the Works, buildings to be used as workshops and stores for perishable materials. Buildings shall be constructed in accordance with the drawings prepared by the Contractor and concurred by the Engineer. The lump sum shall also include for altering, modifying or dismantling and re-erecting within the site all temporary buildings/structures if required

60 % of the L.sum under this item will be certified on establishment of all planned facilities balance of 30% for maintenance and the balance of 10% for when they have been removed and site cleaned on completion of the work. All items established under this item will remain the property of the Contractor.

Payments for maintenance under this item shall be included in the part payment certificates from the time the facilities have been established until completion

1.4 Setting Out

Sub Item 1.4.1 Allow lump sum for setting out of works

The sub item provides for setting out of works in accordance with drawings and other written information given by the Engineer.

Payments under this item will be certified once the all setting out have been completed and accepted by the Engineer at site

1.5 Quality, Standards and Progress

Sub Item 1.5.1 Allow lump sum Providing of progress reports

The sub item is provided as lump sum basis for Provision of monthly progress reports including photographic records and other schedules included in the ICTAD publication - Guidelines for effective Construction Management. (ICTAD/CM/01), relevant to contract administration as directed by Engineer.

Payments will be certified on submission and acceptance of the required progress reports. Payment will be received against actual progress.

Sub Item 1.5.2 Provisional sum for all cost in connection with testing of Materials, Goods etc

The sub item is provided as a provisional sum item for the reimbursement of preparing samples for testing, making arrangements for testing of materials, goods etc. in addition to the specification, obtaining test reports and submitting the same to the Engineer on his request. (All other stipulated test are including in the rate)

Payments under this item will be certified on production of the relevant documents of proof of payment and approved by the Engineer.

Sub Item 1.5.3 Allow lump sum for providing of 4 sets of (hard copies and soft copies) as-built drawing of all services, O & M manual (hard copies and soft copies) for Engineer's approval.

The sub item is provided on a lump sum basis for the submission of As-Built Drawings, Quality Assurance reports and O & M Manual etc. as specified in the Contract and requested by the Engineer.

Payments will be certified on submission and acceptance of the required drawings and documents.

1.6 Health and Safety

Sub Item 1.6.1 Allow lump sum for providing and maintaining health, safety & Environment

The Contractor shall provide and maintain Health, Safety, and Environmental (HSE) measures throughout the contract period in accordance with the Environmental and Social Management Plan (ESMP). This shall include but is not limited to:

Implementation of site safety protocols as per national and project-specific regulations.

Providing personal protective equipment (PPE) to all workers.

Conducting safety training and awareness programs for site personnel.

Ensuring proper waste management and pollution control measures.

Maintaining first aid facilities and emergency response plans.

Regular environmental monitoring and compliance reporting.

All HSE provisions must be documented and approved by the Engineer before and during implementation.

Payments will be certified on compliance and acceptance of Engineer and the submission of necessary report and documents as per agreement and regulations.

Sub Item 1.8.2 Allow Provisional Sum for Employer's share for Adjudicator's fee

This sub item provides for a provisional sum intended to cover the Employer's share of the fees and expenses paid to the Adjudicator by the Contractor. Payments will be certified upon the submission and acceptance of the required documentation by the Engineer.

Bill No B: Remaining Construction Works at Anuradhapura Regional Office

Sub Item B.1 - Concreting Plinth Beam

Sub Item B.1-1 -Mixing placing in position Cement concrete grade C16/20 in column foundation, column shaft and plinth beams using mixer, Vibrator and curing - up to first floor level.

The measurement for payment shall be the volume of concrete of measurement at site and approved by the Engineer.

Sub Item B.1-2 - 12mm thick laminated plywood shuttering for slab, beams and staircase including dismantling

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.1-3 - High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed.

The measurement for payment shall be the actual length of measurement at site and approved by the Engineer.

Sub Item B.1-4 - Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in ground floor (Laps should be measured as per the drawings).

The measurement for payment shall be the actual length of measurement at site and approved by the Engineer.

Sub Item B.2 - Block work & Plaster

Sub Item B.2-1 - 4" thickness cement sand solid block wall (block confirming to S.L.S. 855 and subject to the approval of sample block) in cement and sand mortar 1:5 in ground floor

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.2-2 - Cement plaster with 1:5 mix, 15mm thick finished smooth with lime putty in internal walls

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.2-3 - Cement plaster with 1:3 mix, 15mm thick finished smooth with lime putty in internal walls

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.3 - Paving Works

Sub Item B.3-1- Rendering 1/2" thick in cement and sand 1:3 in R.C. C. floors and paved floors finished smooth with cement slurry - on existing floor and pavement, including surface preparation

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.3-2 Glazed Ceramic wall tiling of size 12" x 24" approved colour supply and fixing to walls on a Bath room 1:3 Cement sand mortar layer, and pointed with tile grout to match the tile. (Prime Cost of tile Rs. 636.00)

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.3-3 Homogeneous porcelain semi - glazed/mat floor tile for Bath room 12" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (prime Cost of tile is Rs. 636.00)

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.4 - Painting Works

Sub Item B.4-1 Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.4-2 Prepare and apply one coat of Acrylic wall filler and two coats of weather shield-exterior, white and colour

The measurement for payment shall be the actual area of measurement at site and approved by the Engineer.

Sub Item B.5 - Electrical Installation Work

Sub Item B.5-1 Light point wired through a 10 Amp three gang one way plate switch using 2x1.13mm(2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-2 Light point wired through a 10 Amp four gang one way plate switch using 2x1.13mm(2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-3 Light point wired through a 10 Amp five gang one way plate switch using 2x1.13mm(2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-4 Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-5 Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SLS 814 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-6 Supplying and wiring 2x2.5mm² (7/.029") Cu/PVC/PVC cable + 2.5mm² (7/.029) earth wire to working order excluding conduit.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-7 Supply and fixing 1" uPVC conduit including clips.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-8 Supply and install Earth electrode (Cu Rod-1500mm length and 12mm dia.) fixed on ground with 7/1.35mm green wire connection

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-9 Supply install 40A Distribution Box 18way, 40A 2 pole MCB, 40A 2-pole 30mA RCCB, 1 pole MCB x 14 with wall mounted polychrome box - Single Phase(all the MCB/RCCB/ Isolator should be Moller/ Schneider / ABB or approved equivalent)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-10 Supply and install Pendant lamp with LED bulb - 12W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-11 Supply and install Pendant lamp with LED bulb - 15W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.5-12 Supply and install Pendant lamp with LED bulb - 18W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.6 - Aluminium Work

Sub Item B.6-1 Openable single Sash Door (Polyester coated 4mm thick Aluminium Composite Panel both side on bottom & Glazed Panel on top)with Louvers on Top: Natural aluminium single sash butt hinged openable door with middle rail and louvers on top , panelling with Polyester coated aluminium composite panel 0.2mm thick aluminium sheets both side of total thickness 4mm, at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and woold beading, gaskets, pop rivets, threaded bar with nut approved quality lock, butt hinges, door handle with cap nut.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.6-2 Openable Single Sash Door for Toilets (fully panelled with 3mm thick Aluminium Composite Panel with both sides Polyester coated aluminium sheets of 0.2mm thick)(50mm x 25mm box bar of 0.9mm thick outer frame & rail): 50 x 25mm 0.9mm thick natural aluminium door frame with door stoper and single sash butt hinged openable door with 50 x 26 Aluminium door section outer rail panelling with polyester coated aluminium composite panel of 0.12mm thick aluminium sheets both sides of total thickness 3mm at top and bottom panel, rubber beading, gaskets, pop rivets, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.6-3 Casement Window with Louvers on Top (@Bays): Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, casement lock, screw, pop rivets, gaskets hinges, weather strip etc.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.6-4 Natural aluminium top hung type fanlight with louver on top consisting of locks, screws, pop rivets, gaskets, hinges, weather strip etc.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.7 - Roofing Work

Sub Item B.7-1 Asbestos flat ceiling fixed with coves & fillets to approved local timber (micro or equivalent) frame work of 94mm x 45mm @ 4' - 0" c/c, 45mm @ 2' - 0" c/c, fillet size to be 1 " x 1/4" and cove moulding size to be 1 1/2" x 1 1/2" including application of two coats of wood preservative paid separately

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.8- Iron Work

Sub Item B.8-1 Gril top of block work for ventilation using by 1.5" L angle frame in side 6mm bars

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9- Plumbing Works

Sub Item B.9-1 Supply and fix white vitreous china (vc) floor standing wash basin and pedestal with overflow hole and single tap hole in center of "Rocell" brand or approved equivalent complete to working order.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-2 Supply and fix white vitreous china (vc) floor standing close coupled semi back to wall water closet , P trap, from rear of "Rocell" brand or approved equivalent complete to working order inclusive of universal bend. Prime cost of the water closet and seat cover is Rs. 35,654.00

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-3 Mirror bevelled rectangular 24" x 18" aluminium clips and key hole hanging plate including glass shelves. Prime cost of the mirror is Rs. 3,500.00

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-4 Supply and fix 900mm x 450mm stainless steel 0.6mm thick shiny finish kitchen sink with single bowl & single drain an authorized agent. Including PVC bottle trap and water connection with flexible hose. All complete to working order (Swan neck tap paid separately.) Prime cost of the kitchen sink is Rs. 20,000.00

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-5 - Supplying and fixing Plastic 1/2" Bib tap of "S-lon" brand or approved equivalent.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-6 - Supplying and fixing Plastic 1/2" Angle valve of "S-lon" brand or approved equivalent.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-7 - and fixing Plastic 1/2" Swan-neck tap of "S-lon" brand or approved equivalent.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-8 - Supplying and fixing Plastic 1/2" Piller tap of "S-lon" brand or approved equivalent.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-9 - Supplying and fixing Plastic Bidet Shower of "S-lon" brand or approved equivalent.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-10 - Supplying and fixing Plastic 1/2" stop tap of "S-lon" brand or approved equivalent.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-11 - Supply and fixing 1/2" dia plastic flexible hose - 12" length.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-12 - Supplying laying and/or fixing 1/2" dia. uPVC pipe - PNT11 (Type 1000)(Specials paid separately).

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-13 - Supplying laying and/or fixing 1 1/2" dia. uPVC pipe - PNT11 (Type 1000) (Specials paid separately).

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-14 - Supplying and fixing 2" dia. uPVC waste pipe - PNT7 (Type 600) Rate without excavation and specials

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-15 - Supplying and laying 4" dia. uPVC sewer pipe - PnT7 (type 600) as per Drg. No:- WSS 270 - Type I. Excavation, Bedding, Haunching or surrounding to be paid separately. Details of Bedding, Haunching or surrounding are given by the Divisional Engineering as per the location.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-16 - Supplying and fixing 1/2" dia. uPVC valve Socket

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-17 - Supply and fixing 1/2" dia. uPVC Faucet Socket

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-18 - Supply and fixing 1/2" dia. uPVC Elbow

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-19 - Supply and fixing 1/2" dia. uPVC Equal Tee

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-20 - Supply and fixing 1 1/2" dia. uPVC Elbow

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-21 - Supply and fixing 1 1/2" dia. Equal Tee

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-22 - Supply and fixing 2" dia. uPVC Elbow

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-23 - Supply and fixing 4" (110mm) dia Swept bend with cleaning eye (Door Bend 890)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-24 - Supply and fixing 4" (110 mm) dia Swept bend with cleaning eye (Door Bend 450)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-25 - Supply and fixing 4" dia uPVC Socket

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.9-26 - Supply and fixing 4" dia uPVC Equal Tee

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item B.10- Drainage Work

Sub Item B.10-1- Septic tank with internal dimensions 2325x900x2100mm, partition with same wall, all complete including excavation, 100mm thick base slab with 1:3:6 (40mm), 225mm brick work, 20mm thick 1:3 cement rendering including 75mm cover slab with 10mm bars at 225mm c/c both way and 63mm vent pipe with all necessary arrangement to connection toilet drainage as directed engineer.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Bill No C: Remaining Construction Works at Puttalam Regional Office

Sub Item C.1 - Painting Work (Ground Floor)

Sub Item C.1-1 - Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.1-2 - Prepare and apply one coat of Alkali resistant primer and two coats of emulsion-interior paint soffit of slabs

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.1-3 - Prepare and apply one coat of Acrylic wall filler and two coats of weather shield - exterior, white and colour

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.2 - Electrical Installation Work (Ground Floor)

Sub Item C.2-1 - Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SIS 814 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.3 - Aluminium Work (Ground Floor)

Sub Item C.3-1 - Openable Single Sash Door (Polyester coated 4mm thick Aluminium Composite panel both side on bottom & Glazed Panel on top) with Louvers on Top: Natural aluminium single sash butt hinged openable door with middle rail and Louvers on top panelling with polyester coated aluminium composite panel of 0.2mm thick aluminium sheets both sides of total thickness 4mm, at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and woolled beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.3-2 - Openable Single Sash Door for Toilets (fully panelled with 3mm thick Aluminium Composite Panel with both sides Polyester coated aluminium sheets of 0.2mm thick)(50mm x 25mm box bar of 0.9mm thick outer frame & rail): 50 x 25mm 0.9mm thick natural aluminium door frame with door stopper and single sash butt hinged openable door with 50 x 26 Aluminium door section outer rail panelling with polyester coated aluminium composite panel of 0.12mm thick aluminium sheets both sides of total thickness 3mm at top and bottom panel, rubber beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.3-3 - Casement Window with Louvers on Top (2 Bays): Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, Casement lock, screws, pop rivots, gaskets, hinges, weather strips etc

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.3-4 - natural aluminium top hung type fanlight with louver on top consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.4 - Reinforcement Concrete work (1st Floor)

Sub Item C.4-1 - Mixing & Placing in Position Cement concrete grade C20/25 in column shaft using mixer, vibrator and curing -up to second floor level

The measurement for payment shall be the volume of concrete of measurement at site and approved by the Engineer.

Sub Item C.4-2 - High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed

The measurement for payment shall be the length of measurement at site and approved by the Engineer.

Sub Item C.4-3 - Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. And al binding wire in ground floor (Laps should be measured as per the drawings)

The measurement for payment shall be the length of measurement at site and approved by the Engineer.

Sub Item C.4-4 - Shuttering for columns including dismantling in 15mm thick plywood board & side supports with props

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.5 - Block work & Plaster (1st Floor)

Sub Item C.5-1 - 4" thickness cement sand solid block wall (block confirming to S.L.S. 855 and subject to the approval of sample block) in cement and sand mortar 1:5 in ground floor

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.5-12 - Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Cement lime plaster with 1:1:5 mix, 15mm thick finished smooth with lime putty in internal walls - up to second floor level

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

15 mm thick plaster to R.C.C. columns, beams and soffit of slab in cement -sand 1:3 mix including floating with skim coat- up to second floor level

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.6 - Painting & Paving works (1st Floor)

Sub paint to internal walls

The measurement Item C.6-1 Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.6-2 Prepare and apply one coat of Acrylic wall filler and two coats of weather shield - exterior, white and colour

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.6-3 Homogeneous porcelain semi - glazed/mat floor tile 24" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.7 - Aluminium Work (1st Floor)

Sub Item C.7-1 - Openable Single Sash Door (Polyester coated 4mm thick Aluminium Composite panel both side on bottom & Glazed Panel on top) with Louvers on Top: Natural aluminium single sash butt hinged openable door with middle rail and Louvers on top panelling with polyester coated aluminium composite panel of 0.2mm thick aluminium sheets both sides of total thickness 4mm, at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and woold beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.7-2 – Casement Window with Louvers on Top (2 Bays): Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, Casement lock, screws, pop rivots, gaskets, hinges, weather strips etc

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.7-3 - Supply and fixing 76mm aluminium partition (1.2mm thick) with 5mm clear glass on top and cladding board at bottom, gasket beading stick etc. with silicon gum silver aluminium members complete to the accepted engineering standard and manufacturer's specifications

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8 - Electrical Installation Work (1st Floor)

Sub Item C.8-1- Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (for a switch circuit)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-2- Light point wired through a 10 Amp four gang one way plate switch using 2x1/.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-3- Light point wired through a 10 Amp five gang one way plate switch using 2x1/.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-4- Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-5- Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SLS 11 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-6- Supplying and wiring 2x2.5mm² (7/.029") Cu/PVC/PVC cable + 2.5mm² (7/.029) earth wire to working order excluding conduit.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-7- Supply and fixing 1" uPVC conduit including clips.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.8-8- Supply and install Wall fan 16" USHA, Singer(type 02)or equivalent according to Engineers approval with SLS certificate and 1 year warranty certificate

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.9 - Roofing Work (1st Floor)

Sub Item C.9-1- Roofing with corrugated asbestos sheets on imported Balau or Kempas timber frame work (Ridging measured separately). Comprising of 165mm x 45mm ridge plate, 94mm x 70mm wall plate, 94mm x 45mm rafters @ 30" c/c and 45mm x 45mm battens @ 3'-0 c/including application of two coats of wood preservative.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.9-2- Asbestos roofing close fitting ridges fixed complete with roofing screws or hook bolts.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.9-3- Timber Valance/barge board in GINISAPU timber (finished size 225mmx18mm thick) fixed to timber roof frame with 2 nos. of 1 1/2" long screws no. 8 at 1' 6" c/c, including application of two coats of wood preservative.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.9-4- P.V.C. eaves gutter 4 1/2" square type fixed to valance board with P.V.C. brackets @ 1' - 6" c/c including necessary mitre joints, gutter joiners, running heads & end caps

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.9-5- P.V.C. Down pipes 3 1/2" dia. Fixed to wall with 1' clearance to wall and Timber plugging buried to walls and P.V.C. Clips @ 4'-0" c/c including necessary sockets, bends elbows.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item C.9-6- Asbestos flat ceiling fixed with coves & fillets to approved local timber (micro or equivalent) frame work of 94mm x 45mm @ 4' -)" c/c, 45mm x 45mm @ 2'-0" c/c, fillet size to be 1" x 1/4" and cove moulding size to be 1 1/2" x 1 1/2" including application of two coats of wood preservatives included.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Bill No D: Remaining Construction Works at Vauniya Regional Office

Sub Item D.1 - G.I barbed wire fence

Sub Item D.1-1 - Prepare and apply one coat of alkali resistant primer and two coats of G.I barbed wire fence on concrete posts - (height 1800mm)with 1:2:4(20 mm) concrete, section 150mm x 150mm at bottom and 100 mm x 100mm at top ,reinforced with 3 nos. 6 mm bars and 6mm dia. stirrups 200mm intervals and 2 supports on corner posts , 2 support for mid of every 6 intervals and 7nos. of 14 BWG 4 points at 75 mm centres wire line (mascons or approved equivalent) to accepted engineering standard. Rate shall be included excavation 1:3:6 (40mm) cement concrete foundation to all posts and providing bots with washers and nuts, all as per engineering instruction, concrete pad of 300 x 300 x 400 mm and distance between two posts 2400

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2 - Boundary wall for Front side

Sub Item D.2-1 - Excavation for foundations in any material (except rock requiring blasting), part return fill in, ram and deposit surplus within site as directed.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-2 - 150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-3- Mixing placing in position Cement concrete grade C16/20 in column foundation, column shaft and plinth beams using mixer, Vibrator and curing - up to first floor level

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-4 - 12mm thick laminated plywood shuttering for slab, beams and staircase including dismantling

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-5 - 12mm thick laminated plywood shuttering for column shaft including dismantling

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-6- High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-7 - Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Anel binding wire in ground floor (Laps should be measured as per the drawings)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-8 - 100 mm thick nominal solid block work in cement and sand mortar 1:5 with 400 x100x200 mm blocks.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-9 - Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-10 - Prepare and apply one coat of Acrylic wall filler and two coats of weather shield- exterior, white and colour

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-11 - Supply and fix Iron grill, outer frame with 37.5x37.5x5mm angle iron, inner bracings with 25x25x5mm angle iron 900mm c/c fixed complete as per given design including two coats of anticorrosive paint(red) and two coats of enamel paint

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.2-12 - Supply and fixing sliding gate including swing gate with 50x25mm(2mm thick)steel box bar of outer frame with 50x25mm (2mm thick) horizontal steel box bar at the middle welded to outer frame. 25x25mm (1.6mm thick) vertical steel box bar, members welded limits at 100mm c/c on top and 18 gauge GI sheet with embossed at bottom. (approximate embossed size is 900mmx900mm) as per architectural drawings. Rate shall be included two coats of anticorrosive paint (red) and two coat of metal primer Zn-Phosphate with stap hingers, locking arrangement with bolt drop rod.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.3 - Drainage Work

Sub Item D.3-1- Septic tank with internal dimensions 2325x900x2100mm, partition with same wall, all complete including excavation, 100mm thick base slab with 1:3:6 (40mm), 225mm brick work, 20mm thick 1:3 cement rendering including 75mm cove, slab with 10mm bars at 225mm c/c both way and 63mm vent pipe with all necessary arrangement to connection toilet drainage as directed engineer.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4 - Renovation of Accommodation

Sub Item D.4-1- Demolishing of any fixtures demolished, brick stacked and debris cleared and corrugated sheets iron, as per to removed from roof or walls including frame work and stacked ,cleared within the site as directed.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-2 - Excavation for foundations in any material (except rock requiring blasting), part return fill in, ram and deposit surplus within site as directed.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-3- Filling under floors with gravel or other approved quality material spreading, levelling, watering and compaction in 150mm layers as per engineer's instructions.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-4- Antiterminate treatment for the new construction with supplying and applying Biflexthrine 10Tc (Biflex) or approved equivalent as per relevant standards of application with 10 years guaranty.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-5 - 150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-6 - 100mm thick nominal solid block work in cement and sand mortar 1:5 with 400 x100x200

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-7 - 20mm thick plinth plaster in 1:3 cement - sand mortar finished smooth with neat cement floating.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-8 - Cement plaster with 1:5 mix, 15mm thick finished semi rough in external walls.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-9 - Cement plaster with 1:5 mix, 15mm thick finished smooth with skim coat in internal walls.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-10 - Floors, cement concrete 2 1/2: 5 (25mm), 75mm thick, cement rendered 12mm thick, 1:5 with expansion joints filled with cement and sand with neat cement floating

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-11 - Corrugated asbestos sheet roof (sloping to two directions) including 50x100mm imported treated timber rafters at 900 c/c and 50x50mm imported treated timber bearers with necessary coach screws,rafter hook and limpet washers or hook bolts,prepare and apply one coat of wood preservative (black) to structural timber work, includingtouching up cut end etc. after fixing.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-12 - Fabricating and fixing door with 95x70mm frame. in teak timber and 28mm thick teak or above pit panelled sash with design complete with 3 nos. of 5"x 3" sized brass butt hinges and necessary screws.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-13 - Fabricating and fixing window, 95x70mm (nominal)frame in class 1 or above and 28mm thick class 1 or above 3mm clear/printed glass sash complete with 6nos. of 4"x 2 1/2" sized iron oxidized butt hinges and necessary screws.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-14 - Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior white or colour paint to internal walls.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-15 - Prepare and apply one coat of alkali resistant primer and two coats of emulsion-exterior white or colour paint to external walls.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-16 - Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (for a switch circuit)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-17- Light point wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-18 - Light point wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-19 - Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-20 - Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SIS 814 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-21 - Supplying and wiring 2x2.5mm² (7/.029") Cu/PVC/PVC cable + 2.5mm 2(7/.029) earth wire to working order excluding conduit.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-22 - Supply and fixing 1" uPVC conduit including clips.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-23 - Supply install 40A Distribution Box 12 way, 40A 2 pole MCB, 40A 2-pole 30mA RCCB, 1 pole MCB x 8 with wall mounted polychrome box - Single Phase(all the MCB/RCCB/ Isolator should be Moller/ Schneider / ABB or approved equivalent)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.4-24- Supply and fix stainless steel kitchen sink, Crown or approved equivalent with single bowl without drain board (one year guarantee) including chromium plated long neck type sink tap - Momali, Huai or approved equivalent - with 5 years guarantee complete with all necessary fittings

(overall size 450x375mm) - (Guarantee certificate should be submitted with the bill) . Rate shall be included connecting to existing water services and making good

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5 - Construction of Security hut

Sub Item D.5-1- Excavation for foundations in any material (except rock requiring blasting), part return fill in, ram and deposit surplus within site as directed.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-2- 150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-3- Mixing & Placing in Position Cement concrete grade C20/25 in column shaft using mixer, vibrator and curing -up to second floor level

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-4- High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-5- Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in ground floor (Laps should be measured as per the drawings)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-6- Shuttering for columns including dismantling in 15mm thick plywood board & side supports with props

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-7- 100mm thick nominal solid block work in cement and sand mortar 1:5 with 400x100x200

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-8- Cement plaster with 1:5 mix, 15mm thick finished semi rough in external/internal walls. and soffit of the slab

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.5-9- Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior white or colour paint to internal walls and two coats of weather shield-exterior, white and colour

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6 - Construction of Water Tower

Sub Item D.6-1- Excavation for foundations in any material (except rock requiring blasting), part return fill in, ram and deposit surplus within site as directed.

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-2- Mixing & Placing in Position Cement concrete grade C20/25 in Foundation, column shaft, Beam and slab using mixer, vibrator and curing as required

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-3- High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-4- Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in ground floor (Laps should be measured as per the drawings)

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-5- Shuttering for columns including dismantling in 15mm thick plywood board & side supports with props

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-6- thick plaster to R.C.C. columns, beams and soffit of slab in cement - sand 1:3 mix including floating with lime putty

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-7- Prepare and apply two coats of weather shield-exterior, white and colour

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-8- Supply and lay PVC Pipe 32mm - type 1000 including all necessary fittings

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-9- Plastic shell water tank, PE+ or approved equivalent, with 10 years guarantee of capacity 2000 ltr. Including transporting, placing, lifting in position and fixing to the accepted

engineering standards including all necessary. Rate shall be included connecting to existing water services and making good

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-10- Supply and fixing PVC Faucet Socket 32mm - type 1000

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-11- Supply and fixing PVC Elbow 32mm - type 1000

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Sub Item D.6-12- Supply and fixing PVC Valve Socket 32mm - type 1000

The measurement for payment shall be the actual of measurement at site and approved by the Engineer.

Reference Only

Bill of Quantities

PACKAGE 1 -Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board - Anuradhapura		
No	Description	Amount (LKR)
Bill No -A	Preliminaries	
Total Amount of Bill No. A		
Bill No	Remaining Construction Works	
B-01	Concreting Plinth Beam	
B-02	Block work & Plaster	
B-03	Paving Works	
B-04	Painting Works	
B-05	Electrical Installation Work	
B-06	Aluminium Work	
B-07	Roofing Work	
B-08	Iron Work	
B-09	Plumbing Work	
B-10	Drainage Work	
Total Amount of Bill No. B		
I	Sub Total 1- Summary of BOQ (A+B)	
II	Ddt.: Provisional Sums	
III	Sub Total 2 (I-II)	
IV	Discount (if any)	
V	Sub Total (III -IV+II)	
VI	Physical Contingencies [10% of (V)]	
VII	Price Contingencies [2% of (V)]	
VIII	TOTAL BID PRICE CARRIED TO LETTER OF BID (V+VI+VII)	
Total Bid Price (Amount in words)		
IX	VAT (18% of VIII)	
Total Estimate Cost (VIII + IX)		
X	Total for Day Works	

Bid Price with Day Works (VIII+X) (Will be considered only for Evaluation Purpose)	
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Total amount excluding VAT in words.....

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Signature of Bidder :-.....

Reference Only

	A - NOTES
	This Bill of Quantities contains pages numbered 1 - 9 consecutively. Please check to see that no page is missing, nor any in duplicate and that all TRADES are carried to SUMMARY at the end of this Bill of Quantities.
	All temporary works shall be dismantled and cleared away from the site on completion of the work.
	Mechanical plant and equipment which emits obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer.
	The Engineer has the final decision as and when he deems it necessary for the Contractor to take precautions, maintain or repair such plant and equipment or order their removal from the site.
	The contractor shall be responsible for any loss or damage to the works, existing structures, adjoining structures and unfixed materials.
	The Contractor shall be responsible for necessary lighting, watchman and other suitable measures during construction until handing over.
	Contractor shall be responsible for erection, sitting and maintaining of necessary protective netting, fencing, hording, screens at site and other precautions to the required standard and satisfaction of the Engineer.
	The Contractor shall forthwith and as a condition precedent to the commencement of any works under this contract, take out an insurance policy from a company or companies approved by the Engineer in writing on all risk insurance policy or policies indemnifying the contractor, the Engineer's and the Employer's staff at the site from all liabilities including claims by any and every workman employed in and for the performance of this contract for payment of the Workmen's Compensation Legislation and from all costs and expenses incidental or consequential thereto.
	Extent of work: -
	The extent of work as provided for in this Bill of Quantities consists of: - Preliminaries, Improvement to Tank Bund, Sluice repairs, Inlet canal cutting Concrete Road & Miscellaneous
	Specifications: -
	All items of work are to be strictly as shown in drawings and in accordance with and read in conjunction with the Sri Lanka specification, Building Construction. (CIDA Publications.)
	Drawings: -
	The following drawings listed hereunder and any other detail drawings referred to throughout this Bill of Quantities will form part of the contract documents.

	Inspection of site
	Tenderers are requested to visit the site and acquaint themselves with all existing conditions and with the nature and extent of work to be done under this contract.
	The bidder is advised 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
	Any existing services, roads and approaches damaged during the construction to be reinstated without any charge to the employer.
	As no extras will be allowed on the plea of want of information due to neglect on their part in this regard.
	River Sand & granite metal to be used for all concrete works
	Method of Measurement: -
	Rates for all items shall be inclusive of the following:-
	(a) All supply of materials labour, plant, scaffolding, waste, incidental materials, fixing media, Cartage, Hoisting, Fitting and fixing complete.
	(b) Providing holes, chasings etc. as directed for electrical installation and all other services and making good the same as and when such installations are provided.
	c) Providing samples, Specimens etc. for such items of work as required.
	d) All overheads / preliminary expenses and profits except where otherwise stated.
	e) lap length & wastage of material including to reinforcement rate
	f) Testing of all materials.
	Measurements: -
	Tenderers are to note that the measurements are taken absolutely nett, unless otherwise stated and they must, therefore, allow in their prices for all straight cutting, lap length and waste etc. throughout even though not specifically mentioned.
	The all measurement should be joint measurement.
	Discrepancies: -
	Any discrepancies in Drawings, Specifications, Bills of Quantities or any other documents shall be brought to the notice of the employer before bidding.

	Payments: -
	Payments shall be made on actual quantity of work carried out at the site as per contract. 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 actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.
	The attention of the tenderer is drawn to the requirements of the contract, the specifications and any other particulars of the tender. It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and any other documents whether specifically referred to in the Bill of Quantities or not.
	The attention of the tenderer is drawn to the use of the CIDA conditions of contract, the specifications and any other particulars of tender.
	It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and other documents.
	The tenderer is advised to visit the site of the proposed work and is the responsibility of the tenderer to ascertain the condition covering the access to the site, the extent of working space area etc.
	In the Execution of Specialized work under provisional sum the applicable attendance fee factor shall be minimum 10%
	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners or the public
	Preliminaries
	The Engineer / Consultant may modify or amended any item, or add new item/s, or delete inappropriate item/s, depending the nature of the proposed work
	Any other preliminary items not listed below but deemed to be included in the bid rates, as no extras would be made.
	Mode of Payment are as below

	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 Satisfactorily 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 the Completion of works	(g)
	Payment will be received against actual progress	(h)

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
	Preliminaries						
	The attention of the bidder is drawn to the use of Bill of Quantities, Drawings. Conditions of Contract, Specifications and any other particulars related to this bid. It is the bidder's responsibility to see that his price includes for complying with all the requirements of the conditions of contract		Note				
	The bidder is advised 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				
	Existing roads & culverts cannot take the passage of heavy vehicle or such in adequate areas to be strengthened by the successful bidder, before make use		Note				
	Any existing services, roads, culverts and approaches damaged during the construction to be reinstated without any charge to the employer.		Note				
	All temporary works shall be dismantled and cleared away from the site on completion of the work.		Note				
	Any other preliminary items not listed below but deemed to be included in the bid rates, as no extras would be made.		Note				
	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners or the public.		Note				
	Mechanical plant and equipment which emits obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer.		Note				
	The Engineer has the final decision as and when he deems it necessary for the Contractor to take precautions, maintain or repair such plant and equipment or order their removal from the site.		Note				

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
	The contractor shall be responsible for any loss or damage to the works, existing structures, adjoining structures and unfixed materials.		Note				
	The Contractor shall be responsible for necessary lighting, watchman and other suitable measures during construction until handing over.		Note				
	Contractor shall be responsible for erection, shifting and maintaining of necessary protective netting, fencing, hording, screens at site and other precautions to the required standard and satisfaction of the Engineer.		Note				
	Complete structure with concrete floor, pavement, columns and half walls available at site. Roof of the existing structure is an asbestos sheets roof with timber frame work. It is however abandoned and roof is not in an usable condition. The biding needs to be improved with new roof structure and walls.		Note				
	Demolishing of existing roof and walls not included in the scope, will be carried out by Water Resources Board.		Note				
	Bill No :A, Preliminaries						
A.1	Insurances and Securities						
A.1.1	Provisional Sum for Providing a Performance Security and Advance Payment Security	(a)	PS			83,000	
A.1.2	Provisional Sum for Insurance of works, Machinery & Equipment, Plant, Materials, third party persons & property and Employer's personal & property at site and Insurance against accidents and injury to contractor's personal as per the contract as per contract	(a)	PS			83,000	

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
A.2	Contractors Requirements						
A.2.1	Allow lump sum for constructing maintaining, dismantling and removal on completion of the Works, a temporary site office of adequate size including staff rest room and toilets and other facilities for the Contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.	(c)	LS				
A.3	Setting Out						
A.3.1	Allow lump sum for setting out of works in accordance with drawings and other written information given by the Engineer.	(f)	LS				
A.4	Quality, Standards and Progress						
A.4.1	Allow lump sum for Providing of progress reports including photographic records and other schedules included in the CIDA publication Guidelines for Effective Construction Management, relevant to contract administration as directed by the Engineer	(h)	LS				
A.4.2	Provisional sum for all cost in connection with preparing samples for testing, making arrangements for testing of Materials, goods etc, in addition to the specification, obtaining test reports and submitting the same to the Engineer on his request (all other stipulated test are include in the rate)	(d)	PS			200,000	

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
A.4.3	Allow lump sum for providing of 4 sets of (hard copies and soft copies) as-built drawing of all services, O & M manual (hard copies and soft copies) for Engineer's approval.	(d)	LS				
A.6	Health and Safety						
A.6.1	Allow lump sum for providing and maintaining health, safety & Environment throughout the period of construction as directed by the Engineer.	(h)	LS				
A.7	Services and Facilities						
A.7.1	Allow lump sum for supplying temporary electricity for the works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.	(g)	LS				
A.8	Miscellaneous						
A.8.1	Allow lump sum Fabricating, installing and maintaining a project name board,(size 1500mmx1200mm) made out of 26-gauge Zn-Al sheet 50mm G.I Pipe post (2Nos)with fixed with the help of 25mm box bar frame with & necessary bold & nuts and reverts rate including lettering in digital print affixing on Zn-Al sheet with the help of 25x25 Aluminum "L" bar with required details, fixing firmly in ground on concrete base with minimum 1500mm (bottom level of the board) above the ground level, as per dwg.	(g)	LS				
A.8.2	Employer's share for Adjudicator's fee	(f)	PS			32,000	
Total for Bill No. A (Carried to Summary of Bills)							

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
	Bill No. B - Remaining Construction Works of Regional Office for Ground Water Regulation at Anuradhapura					
	Bill No. – B-1, Concreting Plinth Beam					
B.1-1	Mixing placing in position Cement concrete grade C16/20 in column foundation, column shaft and plinth beams using mixer, Vibrator and curing - up to first floor level	m ³	0.90			
B.1-2	12mm thick laminated plywood shuttering for slab, beams and staircase including dismantling	m ²	12.20			
B.1-3	High yield strength reinforcing in columns, beams, slab and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed	kg	70.00			
B.1-4	Mild steel reinforcement to slabs, beams, lintels, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Anneal binding wire in ground floor (Laps should be measured as per the drawings)	kg	20.00			
	Sub Total of Bill No. B-1 Carried to Summary					
	Bill No. – B-2, Block work & Plaster					
B.2-1	4" thickness cement sand solid block wall (block confirming to S.L.S. 855 and subject to the approval of sample block) in cement and sand mortar 1:5 in ground floor	m ²	101.00			
B.2-2	Cement plaster with 1:5 mix, 15mm thick finished smooth with lime putty in internal walls	m ²	92.00			
B.2-3	Cement plaster with 1:3 mix, 15mm thick finished smooth with lime putty in internal walls	m ²	10.00			
	Sub Total of Bill No. B-2 Carried to Summary					

Description		Unit	Qty	Rate	Amount	Rate in Words
	Bill No. - B-3, Paving Works					
B.3-1	Rendering 1/2" thick in cement and sand 1:3 in R.C. C. floors and paved floors finished smooth with cement slurry - on existing floor and pavement, including surface preparation	m ²	328.00			
B.3-2	Glazed Ceramic wall tiling of size 12" x 24" approved colour supply and fixing to walls on a Bath room 1:3 Cement sand mortar layer, and pointed with tile grout to match the tile. (Prime Cost of tile Rs. 636.00)	m ²	38.00			
B.3-3	Homogeneous porcelain semi - glazed/mat floor tile for Bath room 12" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile. (Prime Cost of tile is Rs. 636.00)	m ²	19.00			
Sub Total of Bill No. B-3 Carried to Summary						
	Bill No. - B-4, Painting Works					
B.4-1	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls -	m ²	435.00			
B.4-2	Prepare and apply one coat of acrylic wall filler and two coats of weather shield-exterior, white and colour	m ²	208.00			
Sub Total of Bill No. B-4 Carried to Summary						
	Bill No. – B-5, Electrical Installation Work					
B.5-1	Light point wired through a 10 Amp three gang one way plate switch using 2x/1.13mm(2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	nos.	3.00			
B.5-2	Light point wired through a 10 Amp four gang one way plate switch using 2x/1.13mm(2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	nos.	3.00			

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
B.5-3	Light point wired through a 10 Amp five gang one way plate switch using 2x/1.13mm(2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits.	nos.	2.00			
B.5-4	Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits.	nos.	17.00			
B.5-5	Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SLS 814 and two star energy label as per SLS 1600.(Type 01) (230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.	nos.	12.00			
B.5-6	Supplying and wiring 2x2.5mm ² (7/.029") Cu/PVC/PVC cable + 2.5mm ² (7/.029) earth wire to working order excluding conduit.	m	80.00			
B.5-7	Supply and fixing 1" uPVC conduit including clips.	m	150.00			
B.5-8	Supply and install Earth electrode (Cu Rod-1500mm length and 12mm dia.) fixed on ground with 7/1.35mm green wire connection	nos.	1.00			
B.5-9	Supply install 40A Distribution Box 18way, 40A 2 pole MCB, 40A 2-pole 30mA RCCB, 1 pole MCB x 14 with wall mounted polychrome box - Single Phase(all the MCB/RCCB/ Isolator should be Moller/ Schneider / ABB or approved equivalent)	nos.	1.00			
B.5-10	Supply and install Pendant lamp with LED bulb - 12W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable	nos.	10.00			
B.5-11	Supply and install Pendant lamp with LED bulb - 15W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable	nos.	10.00			
B.5-11	Supply and install Pendant lamp with LED bulb - 15W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable	nos.	10.00			

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
B.5-12	Supply and install Pendant lamp with LED bulb - 18W including switch and necessary wiring with 1.0 Sqmm Cu/PVC/PVC cable	nos.	10.00			
	Sub Total of Bill No. B-5 Carried to Summary					
	Bill No. – B-6, Aluminium Work					
B.6-1	Openable single Sash Door (Polyester coated 4mm thick Aluminium Composite Panel both side on bottom & Glazed Panel on top)with Louvers on Top: Natural aluminium single sash butt hinged openable door with middle rail and louvers on top , panelling with Polyester coated aluminium composite panel 0.2mm thick aluminium sheets both side of total thickness 4mm, at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and wooled beading, gaskets, pop rivots, threaded bar with nut approved quality lock, butt hinges, door handle with cap nut.	m ²	15.00			
B.6-2	Openable Single Sash Door for Toilets (fully panelled with 3mm thick Aluminium Composite Panel with both sides Polyester coated aluminium sheets of 0.2mm thick)(50mm x 25mm box bar of 0.9mm thick outer frame & rail): 50 x 25mm 0.9mm thick natural aluminium door frame with door stoper and single sash butt hinged openable door with 50 x 26 Aluminium door section outer rail panelling with polyester coated aluminium composite panel of 0.12mm thick aluminium sheets both sides of total thickness 3mm at top and bottom panel, rubber beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut	m ²	1.47			
B.6-3	Casement Window with Louvers on Top (@Bays): Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, casement lock, screw, pop rivots, gaskets hinges, weather strip etc.	m ²	27.00			
	Sub Total of Bill No. B-6 Carried to Summary					

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
			LKR	LKR		
8	Bill No. – B-7, Roofing Work					
B.7-1	Asbestos flat ceiling fixed with coves & fillets to approved local timber (micro or equivalent) frame work of 94mm x 45mm @ 4' - 0" c/c, 45mm @ 2' - 0" c/c, fillet size to be 1 " x 1/4" and cove moulding size to be 1 1/2" x 1 1/2" including application of two coats of wood preservative paid separately	m ²	328.00			
	Sub Total of Bill No. B-7 Carried to Summary					
	Bill No. – B-8, Roofing Work					
B.8-1	Gril top of block work for ventilation using by 1.5" L angle frame in side 6mm bars	m ²	9.00			
	Sub Total of Bill No. B-8 Carried to Summary					
	Bill No. – B-9, Plumbing Works					
B.9-1	Supply and fix white vitreous china (vc) floor standing wash basin and pedestal with overflow hole and single top hole in center of "Rocell" brand or approved equivalent complete to working order. Prime cost of the floor standing wash basin and pedestal is Rs. 21,653.00	nos.	2.00			
B.9-2	Supply and fix white vitreous china (vc) floor standing close coupled semi back to wall water closet , P trap, from rear of "Rocell" brand or approved equivalent complete to working order inclusive of universal bend. Prime cost of the water closet and seat cover is Rs. 35,654.00	nos.	2.00			
B.9-3	Mirror bevelled rectangular 24" x 18" aluminium clips and key hole hanging plate including glass shelves. Prime cost of the mirror is Rs. 3,500.00	nos.	1.00			
B.9-4	Supply and fix 900mm x 450mm stainless steel 0.6mm thick shiny finish kitchen sink with single bowl & single drain an authorized agent. Including PVC bottle trap and water connection with flexible hose. All complete to working order (Swan neck tap paid separately.) Prime cost of the kitchen sink is Rs. 20,000.00	nos.	1.00			

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
B.9-5	Supplying and fixing Plastic 1/2" Bib tap of "S-lon" brand or approved equivalent.	nos.	2.00			
B.9-6	Supplying and fixing Plastic 1/2" Angle valve of "S-lon" brand or approved equivalent.	nos.	4.00			
B.9-7	Supplying and fixing Plastic 1/2" Swan-neck tap of "S-lon" brand or approved equivalent.	nos.	1.00			
B.9-8	Supplying and fixing Plastic 1/2" Piller tap of "S-lon" brand or approved equivalent.	nos.	2.00			
B.9-9	Supplying and fixing Plastic Bidet Shower of "S-lon" brand or approved equivalent.	nos.	2.00			
B.9-10	Supplying and fixing Plastic 1/2" stop tap of "S-lon" brand or approved equivalent.	nos.	1.00			
B.9-11	Supply and fixing 1/2" dia plastic flexible hose - 12" length.	nos.	3.00			
B.9-12	Supplying laying and/or fixing 1/2" dia. uPVC pipe - PNT11 (Type 1000)(Specials paid separately).	m	10.98			
B.9-13	Supplying laying and/or fixing 1 1/2" dia. uPVC pipe - PNT11 (Type 1000) (Specials paid separately).	m	6.10			
B.9-14	Supplying and fixing 2" dia. uPVC waste pipe - PNT7 (Type 600) Rate without excavation and specials	m	4.57			
B.9-15	Supplying and laying 4" dia. uPVC sewer pipe - PnT7 (type 600) as per Drg. No:- WSS 270 - Type I . Excavation, Bedding, Haunching or surrounding to be paid separately. Details of Bedding, Haunching or surrounding are given by the Engineer as per the location.	m	3.05			
B.9-16	Supplying and fixing 1/2" dia. uPVC valve Socket	nos.	6.00			

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
B.9-17	Supply and fixing 1/2" dia. uPVC Faucet Socket	nos.	6.00			
B.9-18	Supply and fixing 1/2" dia. uPVC Elbow	nos.	10.00			
B.9-19	Supply and fixing 1/2" dia. uPVC Equal Tee	nos.	6.00			
B.9-20	Supply and fixing 1 1/2" dia. uPVC Elbow	nos.	6.00			
B.9-21	Supply and fixing 1 1/2" dia. Equal Tee	nos.	4.00			
B.9-22	Supply and fixing 2" dia. uPVC Elbow	nos.	4.00			
B.9-23	Supply and fixing 4" (110mm) dia Swept bend with cleaning eye (Door Bend 890)	nos.	2.00			
B.9-24	Supply and fixing 4" (110mm) dia Swept bend with cleaning eye (Door Bend 450)	nos.	2.00			
B.9-25	Supply and fixing 4" dia uPVC Socket	nos.	2.00			
B.9-26	Supply and fixing 4" dia uPVC Equal Tee	nos.	1.00			
	Sub Total of Bill No. B-9 Carried to Summary					
	Bill No. – B-10, Drainage Work					
10.1	Septic tank with internal dimensions 2325x900x2100mm, partition with same wall, all complete including excavation, 100mm thick base slab with 1:3:6 (40mm), 225mm brick work, 20mm thick 1:3 cement rendering including 75mm cover slab with 10mm bars at 225mm c/c both way and 63mm vent pipe with all necessary arrangement to connection toilet drainage as directed engineer.	Item	1.00			
	Sub Total of Bill No. B-10 Carried to Summary					

Reference Only

PACKAGE 2 -Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board – Vavuniya		
No	Description	Amount (LKR)
Bill No A	Preliminaries	
Total Amount of Bill No. A		
Bill No C	Remaining Construction Works at Puttalam Regional Office	
Bill No. C- 01	Painting Work (Ground Floor)	
Bill No. C- 02	Electrical Installation Work (Ground Floor)	
Bill No. C- 03	Aluminium Work (Ground Floor)	
Bill No. C- 04	Reinforcement Concrete work (1 st Floor)	
Bill No. C- 05	Block work & Plaster (1 st Floor)	
Bill No. C- 06	Painting & Paving works (1 st Floor)	
Bill No. C- 07	Aluminium Work (1 st Floor)	
Bill No. C- 08	Electrical Installation Work (1 st Floor)	
Bill No. C- 09	Roofing Work (1 st Floor)	
Total Amount of Bill No. C		
I	Sub Total 1- Summary of BOQ (A+C)	
II	Ddt.: Provisional Sums	
III	Sub Total 2 (I-II)	
IV	Discount (if any)	
V	Sub Total (III -IV+II)	
VI	Physical Contingencies [10% of (V)]	
VII	Price Contingencies [2% of (V)]	
VIII	TOTAL BID PRICE CARRIED TO LETTER OF BID (V+VI+VII)	
Total Bid Price (Amount in words)		
IX	VAT (18% of VIII)	

Total Estimate Cost (VIII + IX)		
X	Total for Day Works	
Bid Price with Day Works (VIII+X) (Will be considered only for Evaluation Purpose)		

Total amount excluding VAT in words.....

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Signature of Bidder :-.....

Reference Only

	A - NOTES
	This Bill of Quantities contains pages numbered 1 - 9 consecutively. Please check to see that no page is missing, nor any in duplicate and that all TRADES are carried to SUMMARY at the end of this Bill of Quantities.
	All temporary works shall be dismantled and cleared away from the site on completion of the work.
	Mechanical plant and equipment which emits obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer.
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	Extent of work: -
	The extent of work as provided for in this Bill of Quantities consists of: - Preliminaries, Improvement to Tank Bund, Sluice repairs, Inlet canal cutting Concrete Road & Miscellaneous
	Specifications: -
	All items of work are to be strictly as shown in drawings and in accordance with and read in conjunction with the Sri Lanka specification, Building Construction. (CIDA Publications.)

	Drawings: -
	The following drawings listed hereunder and any other detail drawings referred to throughout this Bill of Quantities will form part of the contract documents.
	Inspection of site
	Tenderers are requested to visit the site and acquaint themselves with all existing conditions and with the nature and extent of work to be done under this contract.
	The bidder is advised 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
	Any existing services, roads and approaches damaged during the construction to be reinstated without any charge to the employer.
	As no extras will be allowed on the plea of want of information due to neglect on their part in this regard.
	River Sand & granite metal to be used for all concrete works
	Method of Measurement: -
	Rates for all items shall be inclusive of the following: -
	(a) All supply of materials labour, plant, scaffolding, waste, incidental materials, fixing media, Cartage, Hoisting, Fitting and fixing complete.
	(b) Providing holes, chasings etc. as directed for electrical installation and all other services and making good the same as and when such installations are provided.
	c) Providing samples, Specimens etc. for such items of work as required.
	d) All overheads / preliminary expenses and profits except where otherwise stated.
	e) lap length & wastage of material including to reinforcement rate
	f) Testing of all materials.
	Measurements: -
	Tenderers are to note that the measurements are taken absolutely nett, unless otherwise stated and they must, therefore, allow in their prices for all straight cutting, lap length and waste etc. throughout even though not specifically mentioned.
	The all measurement should be joint measurement.

	Discrepancies: -
	Any discrepancies in Drawings, Specifications, Bills of Quantities or any other documents shall be brought to the notice of the employer before bidding.
	Payments: -
	Payments shall be made on actual quantity of work carried out at the site as per contract. 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 actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.
	The attention of the tenderer is drawn to the requirements of the contract, the specifications and any other particulars of the tender. It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and any other documents whether specifically referred to in the Bill of Quantities or not.
	The attention of the tenderer is drawn to the use of the CIDA conditions of contract, the specifications and any other particulars of tender.
	It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and other documents.
	The tenderer is advised to visit the site of the proposed work and is the responsibility of the tenderer to ascertain the condition covering the access to the site, the extent of working space area etc.
	In the Execution of Specialized work under provisional sum the applicable attendance fee factor shall be minimum 10%
	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners or the public
	Preliminaries
	The Engineer / Consultant may modify or amended any item, or add new item/s, or delete inappropriate item/s, depending the nature of the proposed work
	Any other preliminary items not listed below but deemed to be included in the bid rates, as no extras would be made.
	Mode of Payment are as below

	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 Satisfactorily 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 the Completion of works	(g)
	Payment will be received against actual progress	(h)

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
	Preliminaries						
	The attention of the bidder is drawn to the use of Bill of Quantities, Drawings. Conditions of Contract, Specifications and any other particulars related to this bid. It is the bidder's responsibility to see that his price includes for complying with all the requirements of the conditions of contract		Note				
	The bidder is advised 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				
	Existing roads & culverts cannot take the passage of heavy vehicle or such in adequate areas to be strengthened by the successful bidder, before make use		Note				
	Any existing services, roads, culverts and approaches damaged during the construction to be reinstated without any charge to the employer.		Note				
	All temporary works shall be dismantled and cleared away from the site on completion of the work.		Note				
	Any other preliminary items not listed below but deemed to be included in the bid rates, as no extras would be made.		Note				
	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners or the public.		Note				
	Mechanical plant and equipment which emits obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer.		Note				
	The Engineer has the final decision as and when he deems it necessary for the Contractor to take precautions, maintain or repair such plant and equipment or order their removal from the site.		Note				

Section 8 – Bill of Quantities

	The contractor shall be responsible for any loss or damage to the works, existing structures, adjoining structures and unfixed materials.		Note				
	The Contractor shall be responsible for necessary lighting, watchman and other suitable measures during construction until handing over.		Note				
	Contractor shall be responsible for erection, shifting and maintaining of necessary protective netting, fencing, hording, screens at site and other precautions to the required standard and satisfaction of the Engineer.		Note				
	Complete structure with concrete floor, pavement, columns and half walls available at site. Roof of the existing structure is an asbestos sheets roof with timber frame work. It is however abandoned and roof is not in an usable condition. The bidding needs to be improved with new roof structure and walls.		Note				
	Demolishing of existing roof and walls not included in the scope, will be carried out by Water Resources Board.		Note				
	Bill No :A, Preliminaries						
A.1	Insurances and Securities						
A.1.1	Provisional Sum for Providing a Performance Security and Advance Payment Security	(a)	PS			91,000	
A.1.2	Provisional Sum for Insurance of works, Machinery & Equipment, Plant, Materials, third party persons & property and Employer's personal & property at site and Insurance against accidents and injury to contractor's personal as per the contract as per contract	(a)	PS			91,000	

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
A.2	Contractors Requirements						
A.2.1	Allow lump sum for constructing maintaining, dismantling and removal on completion of the Works, a temporary site office of adequate size including staff rest room and toilets and other facilities for the Contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.	(c)	LS				
A.3	Setting Out						
A.3.1	Allow lump sum for setting out of works in accordance with drawings and other written information given by the Engineer.	(f)	LS				
A.4	Quality, Standards and Progress						
A.4.1	Allow lump sum for Providing of progress reports including photographic records and other schedules included in the CIDA publication Guidelines for Effective Construction Management, relevant to contract administration as directed by the Engineer	(h)	LS				
A.4.2	Provisional sum for all cost in connection with preparing samples for testing, making arrangements for testing of Materials, goods etc, in addition to the specification, obtaining test reports and submitting the same to the Engineer on his request (all other stipulated test are include in the rate)	(d)	PS			200,000	

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
A.4.3	Allow lump sum for providing of 4 sets of (hard copies and soft copies) as-built drawing of all services, O & M manual (hard copies and soft copies) for Engineer's approval.	(d)	LS				
A.6	Health and Safety						
A.6.1	Allow lump sum for providing and maintaining health, safety & Environment throughout the period of construction as directed by the Engineer.	(h)	LS				
A.7	Services and Facilities						
A.7.1	Allow lump sum for supplying temporary electricity for the works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.	(g)	LS				
A.8	Miscellaneous						
A.8.1	Allow lump sum Fabricating, installing and maintaining a project name board,(size 1500mmx1200mm) made out of 26-gauge Zn-Al sheet 50mm G.I Pipe post (2Nos)with fixed with the help of 25mm box bar frame with & necessary bold & nuts and reverts rate including lettering in digital print affixing on Zn-Al sheet with the help of 25x25 Aluminum "L" bar with required details, fixing firmly in ground on concrete base with minimum 1500mm (bottom level of the board) above the ground level, as per dwg.	(g)	LS				
A.8.2	Employer's share for Adjudicator's fee	(f)	PS			35,000	
Total for Bill No. A (Carried to Summary of Bills)							

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
	Bill No. C - Remaining Construction Works of Regional Office for Ground Water Regulation at Anuradhapura					
	Bill No. - C-1, Painting Work (Ground Floor)					
C-1-1	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls -	m ²	154.00			
C-1-2	Prepare and apply one coat of Alkali resistant primer and two coats of emulsion-interior paint soffit of slabs	m ²	89.00			
C-1-3	Prepare and apply one coat of Acrylic wall filler and two coats of weather shield-exterior, white and colour	m ²	154.00			
	Sub Total of Bill No. C-1 Carried to Summary					
	Bill No. - C-2, Electrical Installation Work (Ground Floor)					
C-2-1	Supply and install Ceiling fan 56" "Sweep" Attomax with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SLS 814 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.	nos.	4.00			
	Sub Total of Bill No. C-2 Carried to Summary					
	Bill No. -C-3 Aluminium Work (Ground Floor)					
C-3-1	Openable Single Sash Door (Polyester coated 4mm thick Aluminium Composite panel both side on bottom & Glazed Panel on top) with Louvers on Top: Natural aluminium single sash butt hinged openable door with middle rail and Louvers on top panelling with polyester coated aluminium composite panel of 0.2mm thick aluminium sheets both sides of total thickness 4mm, at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and woold beading, gaskets, pop rivots, threaded bar with nt and approved quality lock, butt hinges, door handle with cap nut	m ²	6.00			
	Sub Total of Bill No. C-2 Carried to Summary					

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
C-3-2	Openable Single Sash Door for Toilets (fully panelled with 3mm thick Aluminium Composite Panel with both sides Polyester coated aluminium sheets of 0.2mm thick)(50mm x 25mm box bar of 0.9mm thick outer frame & rail): 50 x 25mm 0.9mm thick natural aluminium door frame with door stopper and single sash butt hinged openable door with 50 x 26 Aluminium door section outer rail panelling with polyester coated aluminium composite panel of 0.12mm thick aluminium sheets both sides of total thickness 3mm at top and bottom panel, rubber beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut	m ²	2.94			
C-3-3	Casement Window with Louvers on Top (2 Pans): Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, Casement lock, screws, pop rivots, gaskets, hinges, weather strips etc	m ³	7.20			
C-3-4	natural aluminium top hung type fanlight with louver on top consisting of locks, screws, pop rivots, gaskets, hinges, weather strip etc.	m ²	0.30			
Sub Total of Bill No. C-3 Carried to Summary						
Bill No. - C-4 Reinforcement Concrete work (1st Floor)						
C-4-1	Mixing & Placing in Position Cement concrete grade C20/25 in column shaft using mixer, vibrator and curing -up to second floor level	m ³	0.200			
C-4-2	High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed	kg	100.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
C-4-3	Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Anneal binding wire in ground floor (Laps should be measured as per the drawings)	kg	42.00			
C-4-4	Shuttering for columns including dismantling in 15mm thick plywood board & side supports with props	m ²	10.00			
C-4-5	Mixing & Placing in Position Cement concrete grade C20/25 in column shaft using mixer, vibrator and curing -up to second floor level	m ³	0.20			
	Sub Total of Bill No. C-4 Carried to Summary					
	Bill No. - C-5 Block work & Plaster (1st Floor)					
C-5-1	4" thickness cement sand solid block wall (block conforming to S.L.S. 855 and subject to the approval of sample block) in cement and sand mortar 1:5 in ground floor	m ²	153.563			
C-5-2	Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls	m ²	153.563			
C-5-3	Cement lime plaster with 1:1:5 mix, 15mm thick finished smooth with lime putty in internal walls - up to second floor level	m ²	153.563			
C-5-4	15 mm thick plaster to R.C.C. columns, beams and soffit of slab in cement -sand 1:3 mix including floating with skim coat- up to second floor level	m ²	3.000			
	Sub Total of Bill No. C-5 Carried to Summary					
	Bill No. - C-6 Painting & Paving works (1st Floor)					
C-6-1	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior paint to internal walls -	m ²	153.563			
C-6-2	Prepare and apply one coat of Acrylic wall filler and two coats of weather shield-exterior, white and colour	m ²	153.563			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
C-6-3	Homogeneous porcelain semi - glazed/mat floor tile 24" x 24" paving on 1:3 cement & sand bedding and pointed with tile grout to match the tile.	m ²	137.50			
	Sub Total of Bill No. C-6 Carried to Summary					
	Bill No. - C-7 Aluminium Work (1st Floor)					
C-7-1	Openable Single Sash Door (Polyester coated 4mm thick Aluminium Composite panel both side on bottom & Glazed Panel on top) with Louvers on Top: Natural aluminium single sash butt hinged openable door with middle rail and Louvers on top panelling with polyester coated aluminium composite panel of 0.2mm thick aluminium sheets both sides of total thickness 4mm, at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and veebead beading, gaskets, pop rivots, threaded bar with nut and approved quality lock, butt hinges, door handle with cap nut.	m ²	9.00			
C-7-2	Casement Window with Louvers on Top (2 Bays): Natural aluminium casement window double sash with louvers on top, consisting of 5mm thick clear glass panes, Casement lock, screws, pop rivots, gaskets, hinges, weather strips etc	m ²	9.00			
C-7-3	Supply and fixing 76mm aluminium partition (1.2mm thick) with 5mm clear glass on top and cladding board at bottom, gasket beading stick etc. with silicon gum Silver aluminium members complete to the accepted engineering standard and manufacturer's specifications	m ²	16.25			
	Sub Total of Bill No. C-7 Carried to Summary					

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
	Bill No –C-8- Electrical Installation Work (1st Floor)					
C-8-1	Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (for a switch circuit)	nos.	2.00			
C-8-2	Light point wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)	nos.	3.00			
C-8-3	Light point wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)	nos.	2.00			
C-8-4	Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits.	nos.	10.00			
C-8-5	Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SIS 814 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sqmm Cu/PVC/PVC + 2.5 Sqmm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.	nos.	3.00			
C-8-6	Supplying and wiring 2x2.5mm ² (7/.029") Cu/PVC/PVC cable + 2.5mm ² (7/.029) earth wire to working order excluding conduit.	m	75.00			
C-8-7	Supply and fixing 1" uPVC conduit including clips.	m	75.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
C-8-8	Supply and install Wall fan 16" USHA, Singer(type 02)or equivalent according to Engineers approval with SLS certificate and 1 year warranty certificate	nos.	3.00			
	Sub Total of Bill No. C-8 Carried to Summary					
	Bill No –C-9- Roofing Work (1st Floor)					
C-9-1	Roofing with corrugated asbestos sheets on imported Balau or Kempas timber frame work (Ridging measured separately) Comprising of 165mm x 45mm ridge plate, 94mm x 70mm wall plate, 94mm x 45mm rafters @ 30" c/c and 45mm x 45mm battens @ 3'-0 c/including application of two coats of wood preservative.	m ²	137.50			
C-9-2	Asbestos roofing close fitting ridges fixed complete with roofing screws or hook bolts.	m	12.50			
C-9-3	Timber Valance/barge board in GINISAPU timber (finished size 225mmx18mm thick) fixed to timber roof frame with 2 nos. of 11/2" long screws no. 8 at 1' 6" c/c, including application of two coats of wood preservative.	m	47.00			
C-9-4	P.V.C. eaves gutter 4 1/2" square type fixed to valance board with P.V.C. brackets @ 1' - 6" c/c including necessary mitre joints, gutter joiners, running heads & end caps	m	25.00			
C-9-5	P.V.C. Down pipes 3 1/2" dia. Fixed to wall with 1' clearance to wall and Timber plugging buried to walls and P.V.C. Clips @ 4'-0" c/c including necessary sockets, bends elbows.	m	48.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
C-9-6	Asbestos flat ceiling fixed with coves & fillets to approved local timber (micro or equivalent) frame work of 94mm x 45mm @ 4' -)" c/c, 45mm x 45mm @ 2'-0" c/c, fillet size to be 1" x 1/4" and cove moulding size to be 1 1/2" x 1 1/2" including application of two coats of wood preservatives included.	m ²	21.00			
	Sub Total of Bill No. C-9 Carried to Summary					

Reference Only

PACKAGE 3 -Renovation of Provisional Ground Water Management Unit (GWMU) for Water Resources Board – Puttalam		
No	Description	Amount (LKR)
Bill No A	Preliminaries	
Total Amount of Bill No. A		
D	Remaining Construction Works at Vavuniya Regional Office	
Bill No. D-01	G.I barbed wire fence	
Bill No. D- 02	Boundary wall for Front side	
Bill No. D- 02	Drainage Work	
Bill No. D- 02	Renovation of Accommodation	
Bill No. D- 05	Construction of Security hut	
Bill No. D- 06	Construction of Water Tower	
Total Amount of (D)		
I	Sub Total 1- Summary of BOQ (D+A)	
II	Edt.: Provisional Sums	
III	Sub Total 2 (I-II)	
IV	Discount (if any)	
V	Sub Total (III -IV+II)	
VI	Physical Contingencies [10% of (V)]	
VII	Price Contingencies [2% of (V)]	
VIII	TOTAL BID PRICE CARRIED TO LETTER OF BID (V+VI+VII)	
Total Bid Price (Amount in words)		
IX	VAT (18% of VIII)	
Total Estimate Cost (VIII + IX)		
X	Total for Day Works	

Bid Price with Day Works (VIII+X) (Will be considered only for Evaluation Purpose)	
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Total amount excluding VAT in words.....

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Signature of Bidder :-.....

Reference Only

	A - NOTES
	This Bill of Quantities contains pages numbered 1 - 9 consecutively. Please check to see that no page is missing, nor any in duplicate and that all TRADES are carried to SUMMARY at the end of this Bill of Quantities.
	All temporary works shall be dismantled and cleared away from the site on completion of the work.
	Mechanical plant and equipment which emits obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer.
	The Engineer has the final decision as and when he deems it necessary for the Contractor to take precautions, maintain or repair such plant and equipment or order their removal from the site.
	The contractor shall be responsible for any loss or damage to the works, existing structures, adjoining structures and unfixed materials.
	The Contractor shall be responsible for necessary lighting, watchman and other suitable measures during construction until handing over.
	Contractor shall be responsible for erection, siting and maintaining of necessary protective netting, fencing, hording, screens at site and other precautions to the required standard and satisfaction of the Engineer.
	The Contractor shall forthwith and as a condition precedent to the commencement of any works under this contract, take out an insurance policy from a company or companies approved by the Engineer in writing on all risk insurance policy or policies indemnifying the contractor, the Engineer's and the Employer's staff at the site from all liabilities including claims by any and every workman employed in and for the performance of this contract for payment of the Workmen's Compensation Legislation and from all costs and expenses incidental or consequential thereto.
	Extent of work: -
	The extent of work as provided for in this Bill of Quantities consists of: - Preliminaries, Improvement to Tank Bund, Sluice repairs, Inlet canal cutting Concrete Road & Miscellaneous
	Specifications: -
	All items of work are to be strictly as shown in drawings and in accordance with and read in conjunction with the Sri Lanka specification, Building Construction. (CIDA Publications.)
	Drawings: -
	The following drawings listed hereunder and any other detail drawings referred to throughout this Bill of Quantities will form part of the contract documents.

Section 8 – Bill of Quantities

	Inspection of site
	Tenderers are requested to visit the site and acquaint themselves with all existing conditions and with the nature and extent of work to be done under this contract.
	The bidder is advised 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
	Any existing services, roads and approaches damaged during the construction to be reinstated without any charge to the employer.
	As no extras will be allowed on the plea of want of information due to neglect on their part in this regard.
	River Sand & granite metal to be used for all concrete works
	Method of Measurement: -
	Rates for all items shall be inclusive of the following:
	(a) All supply of materials labour, plant, scaffolding, waste, incidental materials, fixing media, Cartage, Hoisting, Fitting and fixing complete.
	(b) Providing holes, chasings etc. as directed for electrical installation and all other services and making good the same as and when such installations are provided.
	c) Providing samples, Specimens etc. for such items of work as required.
	d) All overheads / preliminary expenses and profits except where otherwise stated.
	e) lap length & wastage of material including to reinforcement rate
	f) Testing of all materials.
	Measurements: -
	Tenderers are to note that the measurements are taken absolutely nett, unless otherwise stated and they must, therefore, allow in their prices for all straight cutting, lap length and waste etc. throughout even though not specifically mentioned.
	The all measurement should be joint measurement.
	Discrepancies: -
	Any discrepancies in Drawings, Specifications, Bills of Quantities or any other documents shall be brought to the notice of the employer before bidding.
	Payments: -

Section 8 – Bill of Quantities

	Payments shall be made on actual quantity of work carried out at the site as per contract. 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 actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.
	The attention of the tenderer is drawn to the requirements of the contract, the specifications and any other particulars of the tender. It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and any other documents whether specifically referred to in the Bill of Quantities or not.
	The attention of the tenderer is drawn to the use of the CIDA conditions of contract, the specifications and any other particulars of tender.
	It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and other documents.
	The tenderer is advised to visit the site of the proposed work and is the responsibility of the tenderer to ascertain the condition covering the access to the site, the extent of working space area etc.
	In the Execution of Specialized work under provisional sum the applicable attendance fee factor shall be minimum 10%
	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners or the public
	Preliminaries
	The Engineer / Consultant may modify or amended any item, or add new item/s, or delete inappropriate item/s, depending the nature of the proposed work
	Any other preliminary items not listed below but deemed to be included in the bid rates, as no extras would be made.
	Mode of Payment are as below

Section 8 – Bill of Quantities

	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 Satisfactorily 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 the Completion of works	(g)
	Payment will be received against actual progress	(h)

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
	Preliminaries						
	The attention of the bidder is drawn to the use of Bill of Quantities, Drawings. Conditions of Contract, Specifications and any other particulars related to this bid. It is the bidder's responsibility to see that his price includes for complying with all the requirements of the conditions of contract		Note				
	The bidder is advised 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				
	Existing roads & culverts cannot take the passage of heavy vehicle or such in adequate areas to be strengthened by the successful bidder, before make use		Note				
	Any existing services, roads, culverts and approaches damaged during the construction to be reinstated without any charge to the employer.		Note				
	All temporary works shall be dismantled and cleared away from the site on completion of the work.		Note				
	Any other preliminary items not listed below but deemed to be included in the bid rates, as no extras would be made.		Note				
	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners or the public.		Note				
	Mechanical plant and equipment which emits obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer.		Note				
	The Engineer has the final decision as and when he deems it necessary for the Contractor to take precautions, maintain or repair such plant and equipment or order their removal from the site.		Note				

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
	The contractor shall be responsible for any loss or damage to the works, existing structures, adjoining structures and unfixed materials.		Note				
	The Contractor shall be responsible for necessary lighting, watchman and other suitable measures during construction until handing over.		Note				
	Contractor shall be responsible for erection, shifting and maintaining of necessary protective netting, fencing, hording, screens at site and other precautions to the required standard and satisfaction of the Engineer.		Note				
	Complete structure with concrete floor, pavement columns and half walls available at site. Roof of the existing structure is an asbestos sheets roof with timber frame work. It is however abandoned and roof is not in an usable condition. The bidding needs to be improved with new roof structure and walls.		Note				
	Demolishing of existing roof and walls not included in the scope, will be carried out by Water Resources Board.		Note				
	Bill No :A, Preliminaries						
A.1	Insurances and Securities						
A.1.1	Provisional Sum for Providing a Performance Security and Advance Payment Security	(a)	PS			78,000	
A.1.2	Provisional Sum for Insurance of works, Machinery & Equipment, Plant, Materials, third party persons & property and Employer's personal & property at site and Insurance against accidents and injury to contractor's personal as per the contract as per contract	(a)	PS			78,000	

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
A.2	Contractors Requirements						
A.2.1	Allow lump sum for constructing maintaining, dismantling and removal on completion of the Works, a temporary site office of adequate size including staff rest room and toilets and other facilities for the Contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.	(c)	LS				
A.3	Setting Out						
A.3.1	Allow lump sum for setting out of works in accordance with drawings and other written information given by the Engineer.	(f)	LS				
A.4	Quality, Standards and Progress						
A.4.1	Allow lump sum for Providing of progress reports including photographic records and other schedules included in the CIDA publication Guidelines for Effective Construction Management, relevant to contract administration as directed by the Engineer	(h)	LS				
A.4.2	Provisional sum for all cost in connection with preparing samples for testing, making arrangements for testing of Materials, goods etc, in addition to the specification, obtaining test reports and submitting the same to the Engineer on his request (all other stipulated test are include in the rate)	(d)	PS			30,000	

Section 8 – Bill of Quantities

S.No	Description	Mode of Payment	Unit	Qty	Rate	Amount	Rate in Words
A.4.3	Allow lump sum for providing of 4 sets of (hard copies and soft copies) as-built drawing of all services, O & M manual (hard copies and soft copies) for Engineer's approval.	(d)	LS	1			
A.6	Health and Safety						
A.6.1	Allow lump sum for providing and maintaining health, safety & Environment throughout the period of construction as directed by the Engineer.	(d)	LS	1			
A.7	Services and Facilities						
A.7.1	Allow lump sum for supplying temporary electricity for the works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.	(g)	LS	1			
A.8	Miscellaneous						
A.8.1	Allow lump sum Fabricating, installing and maintaining a project name board,(size 1500mmx1200mm) made out of 26-gauge Zn-Al sheet 50mm G.I Pipe post (2Nos)with fixed with the help of 25mm box bar frame with & necessary bold & nuts and reverts rate including lettering in digital print affixing on Zn-Al sheet with the help of 25x25 Aluminum "L" bar with required details, fixing firmly in ground on concrete base with minimum 1500mm (bottom level of the board) above the ground level, as per dwg.	(g)	LS	1			
A.8.2	Employer's share for Adjudicator's fee	(f)	PS	1		30,000	
Total for Bill No. A (Carried to Summary of Bills)							

Section 8 – Bill of Quantities

S.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-1.1	G.I barbed wire fence on concrete posts - (height 1800mm) with 1:2:4(20 mm) concrete, section 150mm x 150mm at bottom and 100 mm x 100mm at top, reinforced with 3 nos. 6 mm bars and 6mm dia. stirrups 200mm intervals and 2 supports on corner posts, 2 support for mid of every 6 intervals and 7nos. of 14 BWG 4 points at 75 mm centres wire line (mascons or approved equivalent) to accepted engineering standard. Rate shall be included excavation 1:1:4 (40mm) cement concrete foundation to all posts and providing bolts with washers and nuts, all as per engineering instruction, concrete pad of 300 x 300 x 400 mm and distance between two posts 2400	m	75.00			
Sub Total of Bill No. D-1 Carried to Summary						
Bill No –D-2- Boundary wall for Front side						
D-2.1	Excavation for foundations in any material (except rock requiring blasting), part return fills in, ram and deposit surplus within site as directed.	m ³	9.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-2.2	150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation	m ³	5.40			
D-2.3	Mixing placing in position Cement concrete grade C16/20 in column foundation, column shaft and plinth beams using mixer, Vibrator and curing - up to first floor level	m ³	1.83			
D-2.4	12mm thick laminated plywood shuttering for slab, beams and staircase including dismantling	m ²	13.50			
D-2.5	12mm thick laminated plywood shuttering for column shaft including dismantling	m ²	32.40			
D-2.6	High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed	kg	88.80			
D-2.7	Mild steel reinforcement to slabs, beams, lintels, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Anneal binding wire in ground floor (Laps should be measured as per the drawings)	kg	33.60			
D-2.8	100 mm thick nominal solid block work in cement and sand mortar 1:5 with 400 x100x200 mm blocks	m ²	120.00			
D-2.9	Cement plastering with 1:5 mix, 15mm thick finished semi rough in external walls	m ²	120.00			
D-2-10	Prepare and apply one coat of acrylic wall filler and two coats of weather shield-exterior, white and colour	m ²	120.00			
D-2.11	Supply and fix Iron grill, outer frame with 37.5x37.5x5mm angle iron, inner bracings with 25x25x5mm angle iron 900mm c/c fixed complete as per given design including two coats of anticorrosive paint(red) and two coats of enamel paint	m ²	8.10			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-2.12	Supply and fixing sliding gate including swing gate with 50x25mm(2mm thick)steel box bar of outer frame with 50x25mm (2mm thick) horizontal steel box bar at the middle welded to outer frame. 25x25mm (1.6mm thick) vertical steel box bar, members welded limits at 100mm c/c on top and 18-gauge GI sheet with embossed at bottom. (Approximate embossed size is 900mmx900mm) as per architectural drawings. Rate shall be included two coats of anticorrosive paint (red) and two coat of metal primer Zn-Phosphate with stap hinges, locking arrangement with bolt drop rod.	m ²	24.00			
	Sub Total of Bill No. D-2 Carried to Summary					
	Bill No –D-3- Drainage Work					
D-3.1	Septic tank with internal dimensions 2325x900x2100mm, partition with same wall, all complete including excavation, 100mm thick base slab with 1:3:6 (40mm), 225mm brick work, 20mm thick 1:3 cement rendering including 75mm cover slab with 10mm bars at 225mm c/c both way and 63mm vent pipe with all necessary arrangement to connection toilet drainage as directed engineer.	Item	1.00			
	Sub Total of Bill No. D-3 Carried to Summary					
	Bill No –D-4- Renovation of Accommodation					
D-4.1	Demolishing of any fixtures demolished, brick stacked and debris cleared and corrugated sheets iron, asbestos removed from roof or walls including frame work and stacked, cleared within the site as directed	m ²	24.00			
D-4.2	Excavation for foundations in any material (except rock requiring blasting), part return fills in, ram and deposit surplus within site as directed.	m ³	11.10			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-4.3	Filling under floors with gravel or other approved quality material spreading, levelling, watering and compaction in 150mm layers as per engineer's instructions.	m ³	7.20			
D-4.4	Ant terminate treatment for the new construction with supplying and applying Biflexthrine 10Tc (Biflex) or approved equivalent as per relevant standards of application with 10 years guaranty,	m ²	133.00			
D-4.5	150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation.	m ³	11.10			
D-4.6	100mm thick nominal solid block work in cement and sand mortar 1:5 with 400 x100x200	m ²	229.10			
D-4.7	20mm thick plinth plaster in 1:3 cement - sand mortar finished smooth with neat cement floating.	m ²	22.20			
D-4.8	Cement plaster with 1:5 mix, 15mm thick finished semi rough in external walls.	m ²	180.10			
D-4.9	Cement plaster with 1:5 mix, 15mm thick finished smooth with skim coat in internal walls.	m ²	252.10			
D-4.10	Floors, cement concrete 1:2 1/2: 5 (25mm), 75mm thick, cement rendered 12mm thick, 1:5 with expansion joints filled with cement and sand with neat cement floating	m ²	133.00			
D-4.11	Corrugated asbestos sheet roof (sloping to two directions) including 50x100mm imported treated timber rafters at 900 c/c and 50x50mm imported treated timber bearers with necessary coach screws, rafter hook and limpet washers or hook bolts, prepare and apply one coat of wood preservative (black) to structural timber work, including touching up cut end etc. after fixing.	m ²	273.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-4.12	Fabricating and fixing door with 95x70mm frame. in teak timber and 28mm thick teak or above pit panelled sash with design complete with 3 nos. of 5"x 3" sized brass butt hinges and necessary screws.	m ²	20.00			
D-4.13	Fabricating and fixing window, 95x70mm (nominal)frame in class 1 or above and 28mm thick class 1 or above 3mm clear/printed glass sash complete with 6nos. of 4"x 2 1/2" sized iron oxidized butt hinges and necessary screws.	m ²	30.00			
D-4.14	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior white or colour paint to internal walls.	m ²	252.10			
D-4.15	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-exterior white or colour paint to external walls.	m ²	180.10			
D-4.16	Light point wired through a 10 Amp three gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (for a switch circuit)	nos.	2.00			
D-4.17	Light point wired through a 10 Amp four gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)	nos.	2.00			
D-4.18	Light point wired through a 10 Amp five gang one way plate switch using 2x1/1.13mm (2x1/.044) P.V.C. insulated copper wire & 1x7/0.67mm P.V.C. insulated copper earth wire in fully concealed/surface P.V.C. conduits. (For a switch circuit)	nos.	1.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-4.19	Flush mounted 13 Amp switch socket outlet wired using 2x7/0.67(2x7/.029) insulated copper wire & 1x7/0.67(7/.029) copper earth wire in fully concealed/surface P.V.C. conduits	nos.	8.00			
D-4.20	Supply and install Ceiling fan 56" "Sweep" Atom Ex" with Airflow of 240 cu.m/min @ RPM 280 with tolerance as per SLS 814 and two star energy label as per SLS 1600.(Type 01),(230V, 75W)(with warranty) with regulator and other fittings & including necessary wiring with 1 Sq.mm Cu/PVC/PVC + 2.5 Sq.mm E Cu/PVC cable with SLS certificates & 2 Years warranty certificate.	nos.	3.00			
D-4.21	Supplying and wiring 2x2.5mm ² (7/.029") Cu/PVC/PVC cable + 2.5mm ² (7/.029) earth wire to working order excluding conduit.	m	75.00			
D-4.22	Supply and fixing 1" uPVC conduit including clips.	m	200.00			
D-4.23	Supply install 40A Distribution Box 12 way, 40A 2 pole MCB, 40A 2-pole 30mA RCCB, 1 pole MCB x 8 with wall mounted polychrome box - Single Phase(all the MCB/RCCB/ Isolator should be Moller/ Schneider / ABB or approved equivalent	nos.	1.00			
D-4.24	Supply and fix stainless steel kitchen sink, Crown or approved equivalent with single bowl without drain board (one year guarantee) including chromium plated long neck type sink tap - Momali, Huai or approved equivalent - with 5 years guarantee complete with all necessary fittings (overall size 450x375mm) - (Guarantee certificate should be submitted with the bill) . Rate shall be included connecting to existing water services and making good	nos.	1.00			
	Sub Total of Bill No. D-4 Carried to Summary					

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
	Bill No –D-5- Construction of Security hut					
D-5.1	Excavation for foundations in any material (except rock requiring blasting), part return fill in, ram and deposit surplus within site as directed.	m ³	1.50			
D-5.2	150-225mm Random rubble masonry in cement and sand mortar 1:5 in foundation.	m ³	1.50			
D-5.3	Mixing & Placing in Position Cement concrete grade C20/25 in column shaft using mixer, vibrator and curing -up to second floor level	m ³	1.30			
D-5.4	High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed	kg	63.00			
D-5.5	Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in ground floor (Laps should be measured as per the drawings)	kg	9.00			
D-5.6	Shuttering for columns including dismantling in 15mm thick plywood board & side supports with props	m ²	9.00			
D-5.7	100mm thick nominal solid block work in cement and sand mortar 1:5 with 400 x100x200	m ²	18.00			
D-5.8	Cement plaster with 1:5 mix, 15mm thick finished semi rough in external/internal walls. and soffit of the slab	m ²	42.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-5.9	Prepare and apply one coat of alkali resistant primer and two coats of emulsion-interior white or colour paint to internal walls and two coats of weather shield-exterior, white and colour	m ²	42.00			
	Sub Total of Bill No. D-5 Carried to Summary					
	Bill No –D-6-Construction of Water Tower					
D-6.1	Excavation for foundations in any material (except rock requiring blasting), part return fill in, ram and deposit surplus within site as directed.	m ³	1.80			
D-6.2	Mixing & Placing in Position Cement concrete grade C-20/25 in Foundation, column shaft, Beam and slab using mixer, vibrator and curing as required	m ³	4.90			
D-6.3	High yield strength reinforcing in columns, beams, slabs and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed and lintels up to second floor level bent to shape laid in position and tied with G.I. Wire as directed	kg	168.00			
D-6.4	Mild steel reinforcement to slabs, beams, lintols, columns, footing etc.. Bent to shape, laid in position and tied with 16 B.W.G. Aneal binding wire in ground floor (Laps should be measured as per the drawings)	kg	31.00			
D-6.5	Shuttering for columns including dismantling in 15mm thick plywood board & side supports with props	m ²	28.00			
D-6.6	15mm thick plaster to R.C.C. columns, beams and soffit of slab in cement - sand 1:3 mix including floating with lime putty	m ²	30.00			
D-6.7	Prepare and apply two coats of weather shield-exterior, white and colour	m ²	30.00			

Section 8 – Bill of Quantities

Sr.No	Description	Unit	Qty	Rate	Amount	Rate in Words
D-6.8	Supply and lay PVC Pipe 32mm - type 1000 including all necessary fittings	m	16.00			
D-6.9	Plastic shell water tank, PE+ or approved equivalent, with 10 years guarantee of capacity 2000 ltr. Including transporting, placing, lifting in position and fixing to the accepted engineering standards including all necessary. Rate shall be included connecting to existing water services and making good	nos.	1.00			
D-6.10	Supply and fixing PVC Faucet Socket 32mm - type 1000	nos.	4.00			
D-6.11	Supply and fixing PVC Elbow 32mm - type 1000	nos.	4.00			
D-6.12	Supply and fixing PVC Valve Socket 32mm - type 1000	nos.	2.00			
D-6.13	Supply and lay PVC Pipe 32mm - type 1000 including all necessary fittings	m	16.00			
	Sub Total of Bill No. D-4 Carried to Summary					

BILL NO 5: DAYWORKS SCHEDULE

Item No	Description	Unit	Nominal Quantity	Rate (LKR)	Amount (LKR)	Rate in Words
5.1	Labour					
5.1.1	Skilled labour	hr	1.00			
5.1.2	Unskilled labour	hr	1.00			
5.1.3	Mason	hr	1.00			
5.1.4	Carpenter	hr	1.00			
5.1.5	Plumber, Electrician	hr	1.00			
5.1.6	Mechanic	hr	1.00			
5.1.7	Welder, Fitter	hr	1.00			
5.1.8	Steel fixer	hr	1.00			
5.1.9	Driver	hr	1.00			
	Total for Labour					
5.2	Material					
5.2.1	Cement (50 Kg bags)	Nos	1.00			
5.2.2	Sand	m ³	1.00			
5.2.3	Mild steel reinforcement	t	1.00			
5.2.4	Tor steel reinforcement	t	1.00			
5.2.5	Timber Ply Sheet 12mm	m ²	1.00			
	Total for Material					
5.3	Equipment					
5.3.1	Backhoe/Loader 100 HP	hr	1.00			
5.3.2	Dump truck / Tipper 20T	hr	1.00			
5.3.3	Tractor/Trailer 100HP	hr	1.00			
5.3.4	Concrete Mixer 1 m3	hr	1.00			
5.3.5	Air Compressor 3-Tool	hr	1.00			
5.3.6	Welding Set 10KVA	hr	1.00			
5.3.7	Diesel Generator 20KVA	hr	1.00			
5.3.8	Water Pumps 50mm	hr	1.00			
	Total for Equipment					
Total for Day works (Carried to Summary of Bills)						

Reference Only

Technical Proposal

Forms for personnel

Forms for equipment

Site organisation

Method statements

Mobilisation and construction schedule

Forms for Personnel

Form PER – 1: Proposed Personnel

Bidders should provide the names of suitably qualified personnel to meet the specified requirements for each of the positions listed in Section III (Evaluation and Qualification Criteria). The data on their experience should be supplied using the form below for each candidate.

1.	Title of position Name
2.	Title of position Name
3.	Title of position Name
4.	Title of position Name
5.	Title of position Name
6.	Title of position Name
etc.	Title of position Name

Forms for Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III (Evaluation and Qualification Criteria). A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder. The Bidder shall provide all the information requested below, to the extent possible. Fields with asterisk (*) shall be used for evaluation.

Type of Equipment*		
Equipment Information	Name of manufacturer	Model and power rating
	Capacity*	Year of manufacture*
Current Status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment ☐ Own ☐ Rented ☐ Leased ☐ Specially manufactured	

The following information shall be provided only for equipment not owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Site Organisation

The Bidder shall provide a personnel chart for the proposed site organization, indicating the key positions as given in Section III (Evaluation and Qualification Criteria) and other positions, with names of personnel proposed and a description of the tasks assigned for such positions.

Reference Only

Method Statements

The Bidder shall provide a method statement describing the methodology proposed to be adopted in the execution of the contract.

Reference Only

Mobilisation and Construction Schedule

The Bidder shall provide a detailed mobilization and construction schedule indicating the sequence of all main operations and identifying critical activities.

Reference Only

Section 9 - Schedules

Schedule 1 – General Information			
(i) <i>If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.</i> (ii) <i>For joint ventures, each joint venture partner shall furnish information separately.</i>			
ITB Clause reference	Description	Information (to be filled by the Bidder)	Remarks
4.1 (a)	Legal Status		Provide certified copies of Registration
	Written power of attorney of the signatory to the Bid	Provide original or certified copy of the power of Attorney attested by a Notary and label as attachment to Clause 4.1(a)	
	If a Joint Venture, names and addresses of Joint Venture Partners	1. 2. 3.	Provide a draft copy of the Joint Venture Agreement or alternatively the memorandum of understanding
	If a Joint Venture, name of Lead Partner		
	For joint ventures, each joint venture partner shall furnish Legal Status separately		
	Name (Lead partner)		Provide certified copies and label as attachment to Clause 4.1(a)
	Legal status		
	Place of registration		
	Principle place of business		
	Written power of attorney of the signatory to the Bid	Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 5.1	
	VAT Registration Number		
	Name (Partner 2)		Provide certified copies and label as attachment to Clause 4.1 (a)
	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)	ICTAD Registration		<i>Provide certified copies and label as attachment to Clause 4.2(a)</i>
	Registration number		
	Grade		
	Specialty		
	Expiry Date		

Schedule 2 – Annual Turn-over Information (Construction only – Last five years)		
(i) <i>If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.</i> (ii) <i>For joint ventures, each joint venture partner shall furnish information separately.</i>		
Year	Turn-over	Remarks
1		<i>Attach audited reports and label as attachment to Clause 4.2</i>
2		
3		
4		
5		

Schedule 3 – Adequacy of Working Capital		
<i>If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application</i>		
Source of credit line	Amount	Remarks
		<i>Provide documentary evidence and label as attachment to Clause 4.2</i>
Total		

Schedule 4 – Construction Experience in last five years	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
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63	64
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67	68
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73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

- (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.*

[illegible]

- *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

Part-time:.....

[illegible]

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		

Non-adjustable element shall be:
All P.Sum & L.Sum items

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.

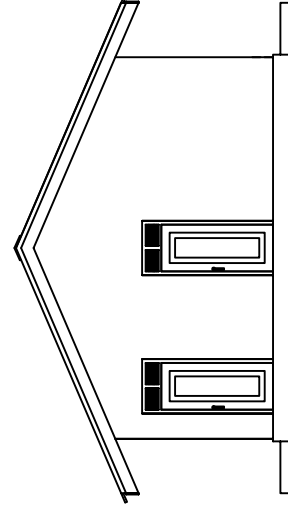
PAYMENT FOR ESHS REQUIREMENTS

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 safe 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

S.I NO	DESCRIPTION	DRAWING NO	NO OF SHEETS
1	Construction of Accommodation Building – Vavuniya GMWU	1	9
2	Construction of Security Hut – Vavuniya GMWU	3	
3	Construction of Water Tower– Vavuniya GMWU	3	
4	Layout - Workshop at – Anuradhapura GMWU	-	
5	Typical Truss Details Workshop at – Anuradhapura GMWU	-	
6	Layout - Workshop at – Anuradhapura GMWU	-	
7	Elevation - Workshop at – Anuradhapura GMWU	-	
8	Layout – Puttalam GMWU	-	
9	Staircase – Puttalam GMWU	-	

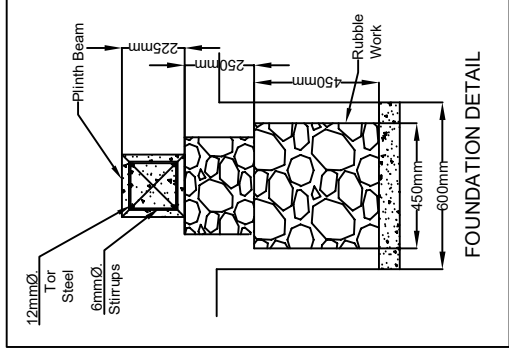
Reference Only



SIDE ELEVATION

[illegible]

SECTION X-X

TOTAL FLOOR AREA - 91.0 m²

1. Screed Concrete mix.ration 1:3:6
(Cement:Sand:Aggregate)

2. Rubble works mix. ratio = 1:5 (Cement:sand)
3. Column Shaft, Footing, Slab & beams using G25 concrete mix ratio
4. Footing Depth may vary according to the sit condition
5. Minimum clear cover for concrete for footing should be 50mm.

**PACKAGE 1- REMAINING
CONSTRUCTION WORKS OF REGIONAL
OFFICE FOR GROUND WATER
REGULATION AT VAUNIYA,**

DRAWING NAME:

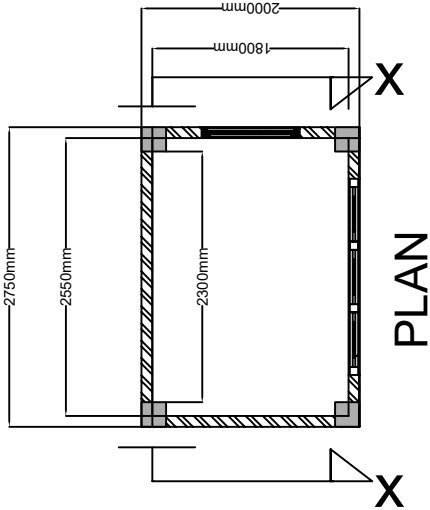
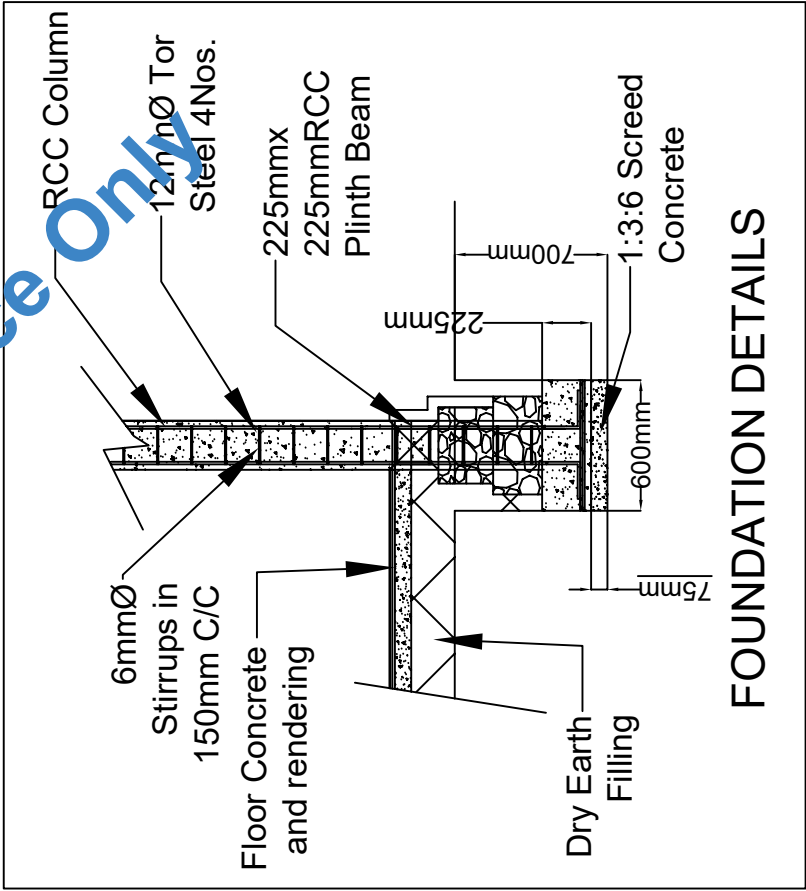
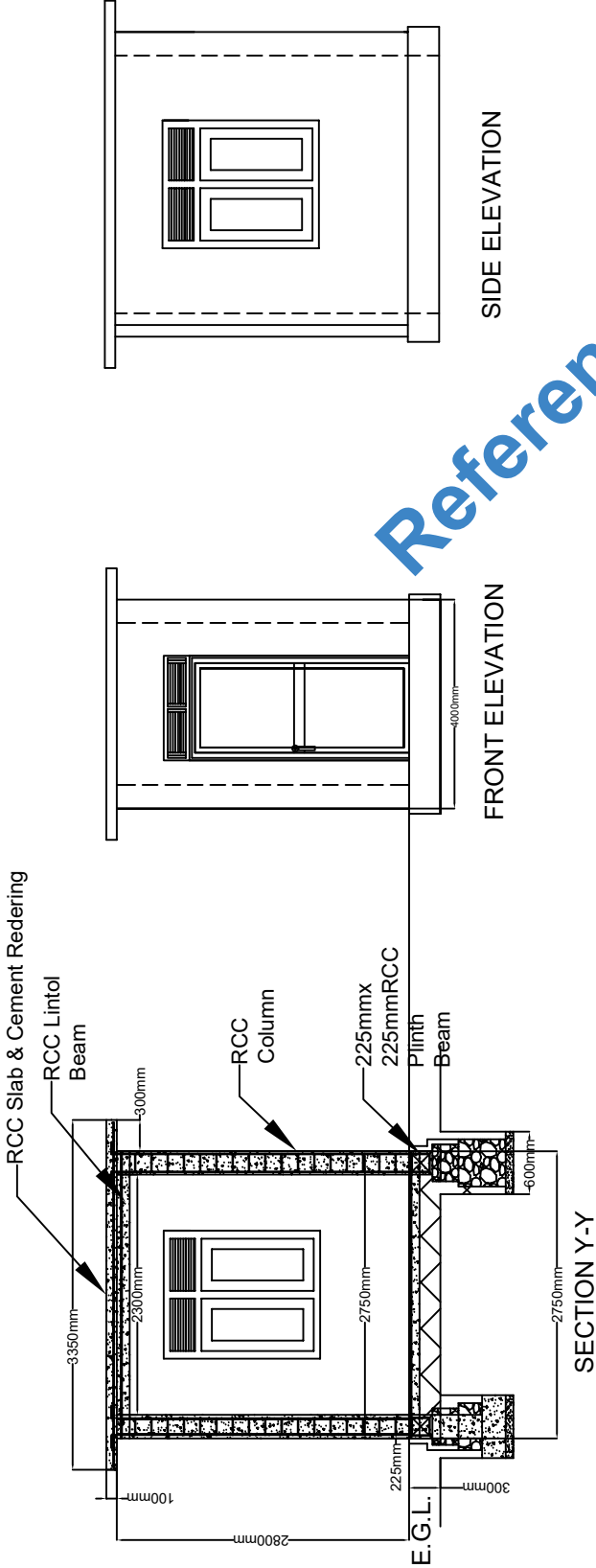
DRW. NO: 01

SCALE		SHEET	A4
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APPROVED BY: CHAIRMAN

DRAWN BY: CIVIL ENGINEER

**WATER RESOURCES BOARD,
NO.488 A, NAWALA ROAD,
RAJAGIRIYA,
SRI LANKA**



- Notes:
1. Screed Concrete mix.ratio 1:3:6 (Cement:Sand:Aggregate)
 2. Rubble works mix. ratio = 1:5 (Cement:sand)
 3. Column Shaft, Footing, Slab & beams using G25 concrete mix.ratio
 4. Footing Depth may vary according to the site condition
 5. Minimum clear cover for concrete for footing should be 50mm.

PROJECT:

PACKAGE 1- REMAINING CONSTRUCTION
WORKS OF REGIONAL OFFICE FOR
GROUND WATER REGULATION AT
VAUNIYA,
SRI LANKA

DRAWING NAME:

Construction of Security Hut for Water
Resources Board Regional Office at
Thekkawatta, Vauniya

DRW. NO: 03

DATE:	29.05.2026	REV	
SCALE	Not to scale	SHEET	A4

APPROVED BY:

APPROVED BY: CHAIRMAN

DESIGN BY: AGM (ENGINEERING)

DRAWN BY: CIVIL ENGINEER

WATER RESOURCES BOARD,
NO.488 A, NAWALA ROAD,
RAJAGIRIYA,
SRI LANKA

FOUNDATION DETAILS

Notes:

1. Screed Concrete mix.ration 1:3:6 (Cement:Sand:Aggregate)
2. Rubble works mix. ratio = 1:5 (Cement:sand)
3. Column Shaft, Footing, Slab & beams using G25 concrete mix.ratio
4. Footing Depth may vary according to the site condition
5. Minimum clear cover for concrete for footing should be 50mm.

PROJECT:

PACKAGE 1- REMAINING
CONSTRUCTION WORKS OF REGIONAL
OFFICE FOR GROUND WATER
REGULATION AT VAUNIYA, SRI LANKA

DRAWING NAME:

Construction of Water Tower
for Water Resources Board Regional
Office at Thekkawatta, Vauniya

DRW. NO: 03

DATE:

29.05.2026

REV

SCALE

SHEET

A4

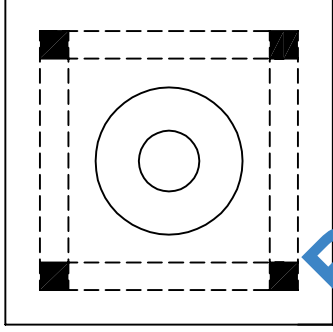
APPROVED BY:

APPROVED BY: CHAIRMAN

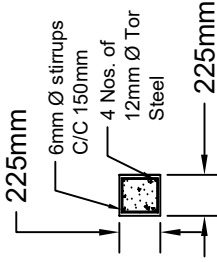
DESIGN BY: AGM (ENGINEERING)

DRAWN BY: CIVIL ENGINEER

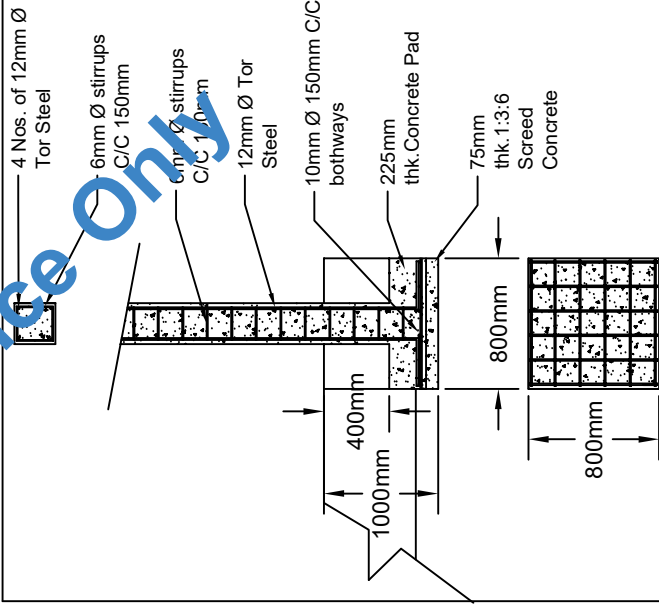
WATER RESOURCES BOARD,
NO.488 A, NAWALA ROAD,
RAJAGIRIYA,
SRI LANKA.



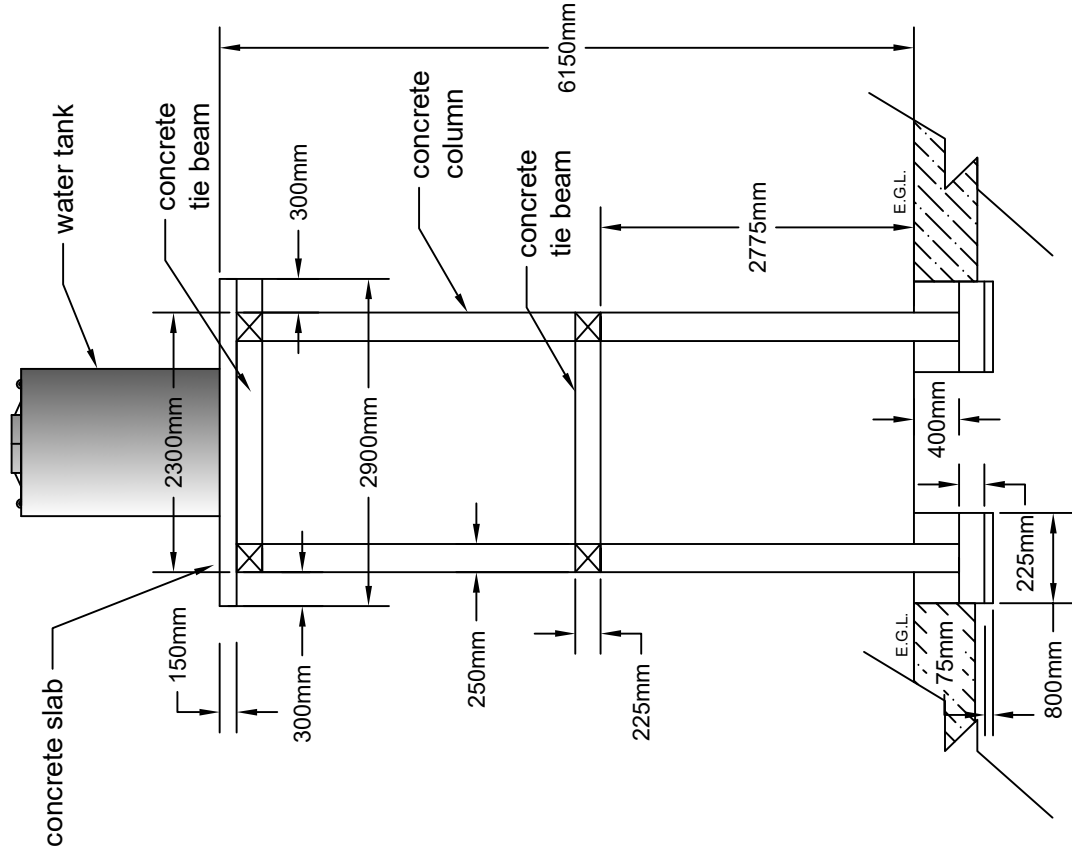
SLAB PLAN VIEW



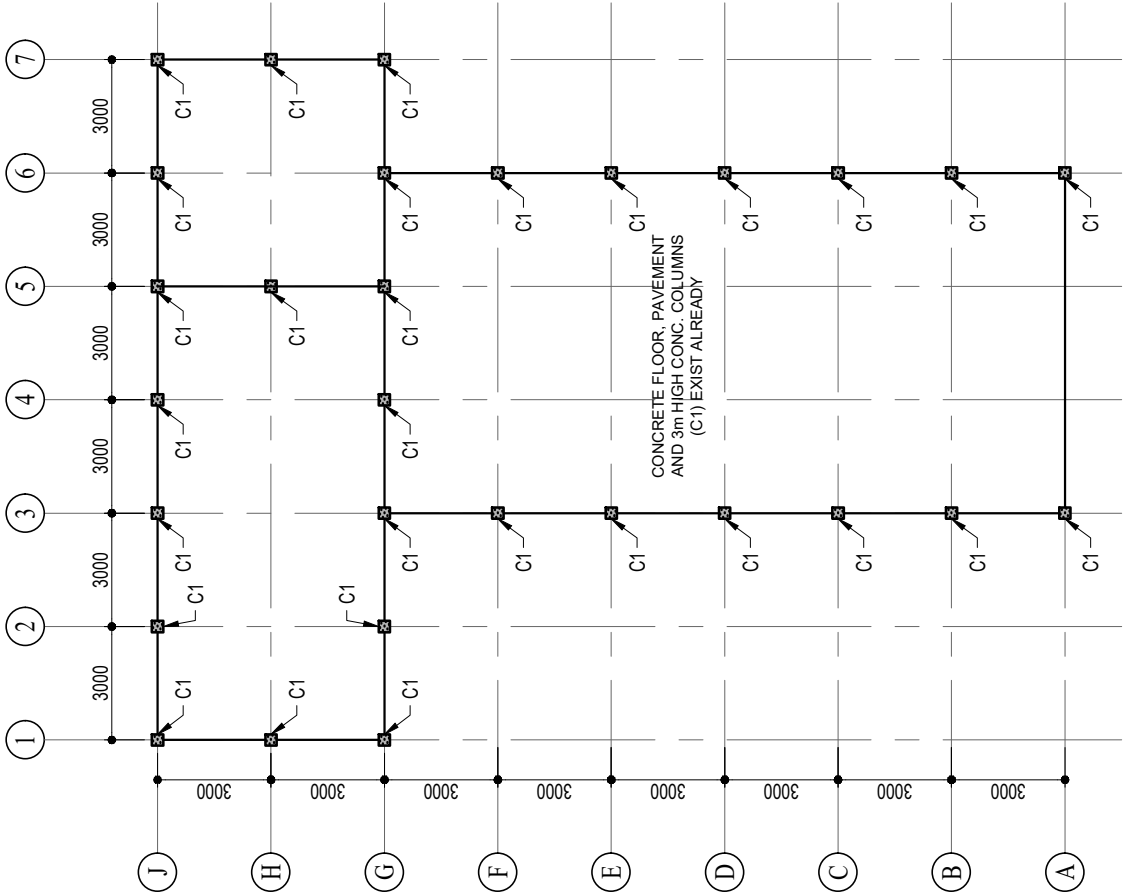
TIE BEAM
DETAILS



COLUMN FOOTING DETAILS

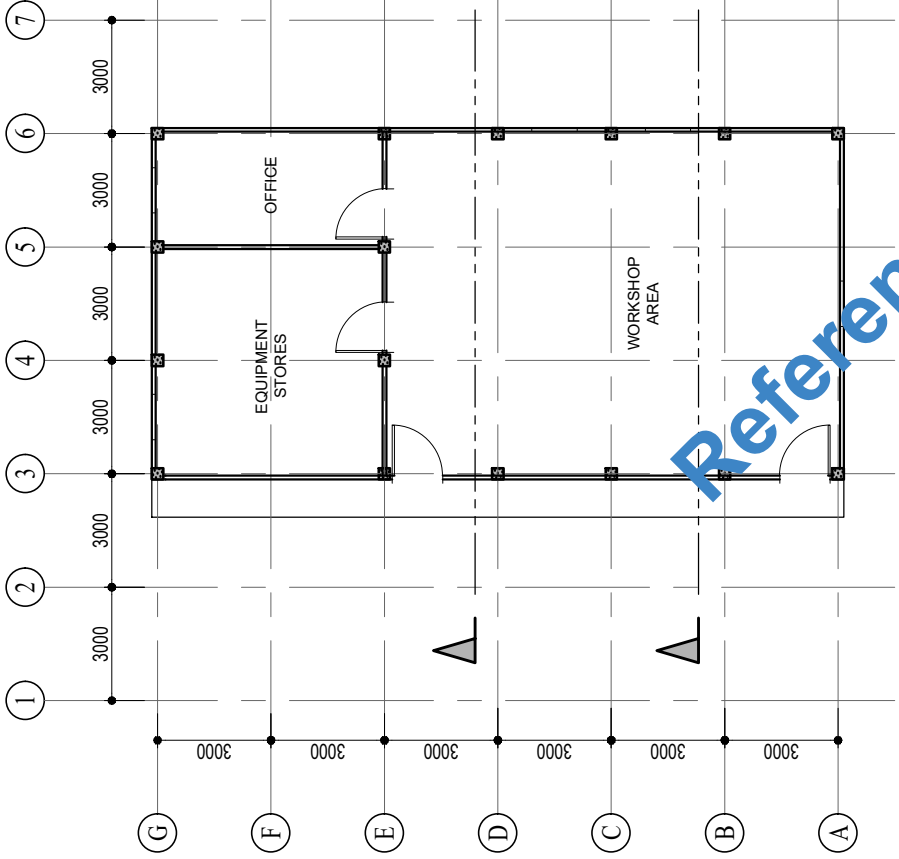


WATER TOWER DETAIL



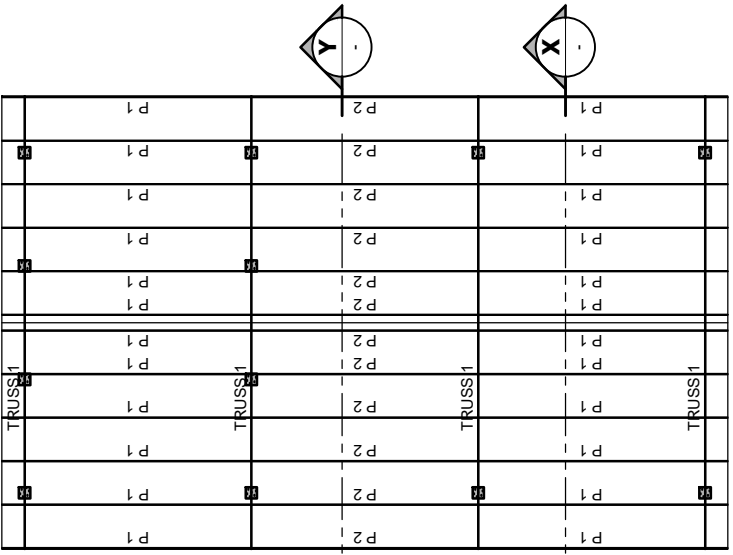
EXISTING LAYOUT

Scale: 1:200



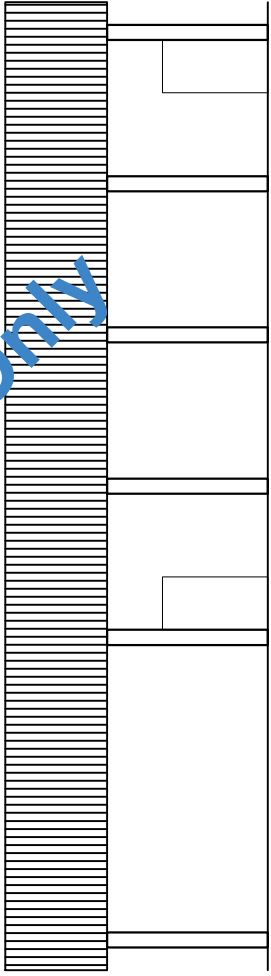
NEW LAYOUT

Scale: 1:200



ROOF LAYOUT

Scale: 1:200

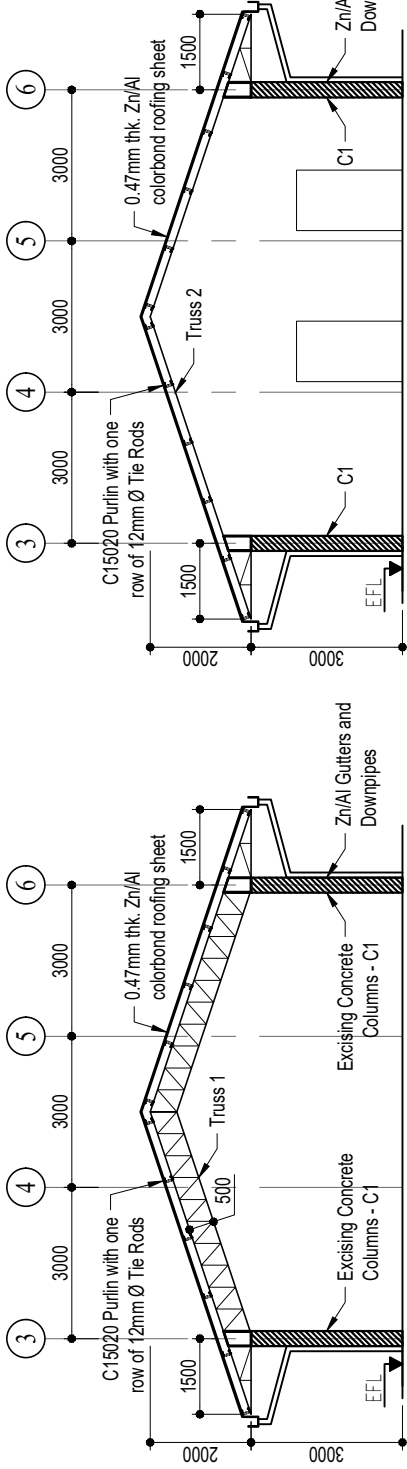


FRONT ELEVATION

Scale: 1:150

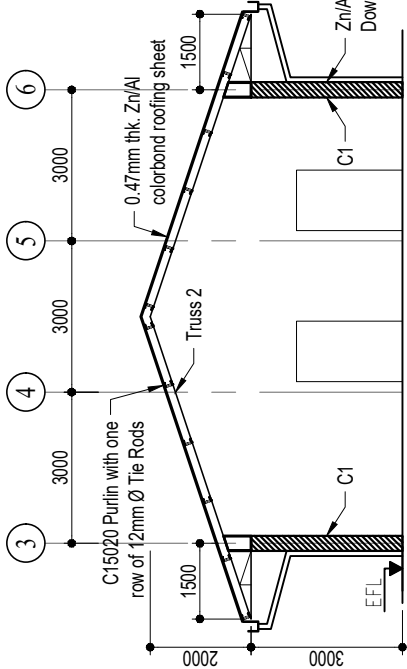
SIDE ELEVATION

Scale: 1:150



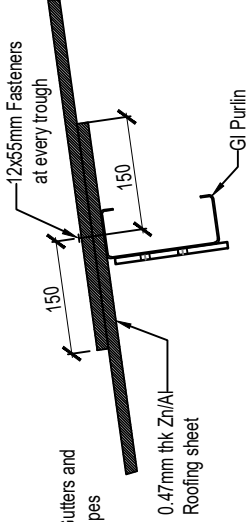
SECTION X-X

Scale: 1:150

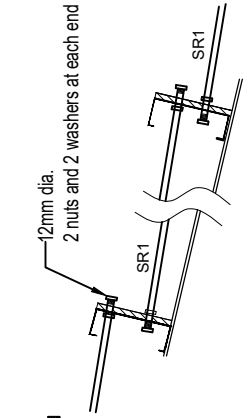


SECTION Y-Y

Scale: 1:150



ROOFING SHEETS LAPPING DETAIL



DETAIL OF TIE RODS

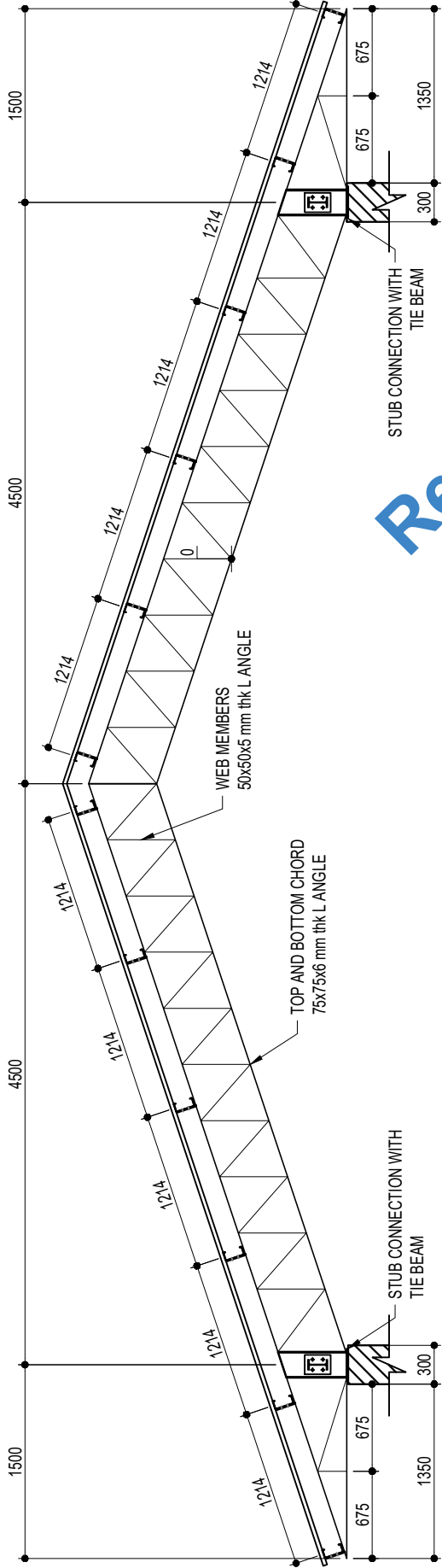
- Notes:
- Steel truss, connection plates and supporting studs shall be of S275
 - Purlin specification - C 150x65x2mm thk. GI Purlin
 - Galvanized threaded bars, 12mm dia, shall be used for all other connections
 - Galvanized threaded bars, 12mm dia, shall be used for tie rods
 - GI nuts & washers, 12mm dia, Grade 4.6 shall be used for tie rods
 - GI nuts & washers, 12mm dia, Grade 4.6 shall be used for tie rods
 - Roofing sheet specification - 0.47mm thick Zn/Al colorbond roofing sheet, 1.85x3.0m with 75mm lap and Mast foil, 8mm thk. Double bubble, 1.0x5.0m with 50mm lap

PROJECT
IMPROVEMENT OF PROPOSED
OPERATIONAL UNIT ON GEO-SCIENTIFIC
DRILLING EQUIPMENT WORKSHOP AT
ANURADHAPURA, SRI LANKA
WATER RESOURCES BOARD

DATE: 09-09-2023 REV: R1
SCALE: AS SHOWN SHEET: A3-Page 1 of 2
APPROVED BY:

APPROVED BY: DR. J.D. SAMARASINGHE, CHAIRMAN
DESIGNED BY:
DRAWN BY: G.D.U. PREERA, SIGNER (CVL)

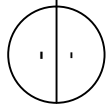
WATER RESOURCES BOARD,
NO 488A, NAWALA ROAD, RAJAGIRIYA,
SRI LANKA.



- Notes on Truss:
- All Truss joints are welded.
 - Fabricator shall submit production drawings of the truss for Engineers (Water Resources Board) approval prior erection.

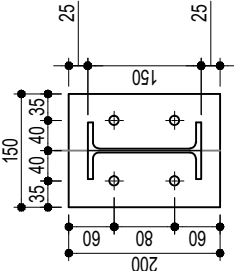
TYPICAL TRUSS DETAIL

Scale: 1:50



TIE BEAM END PLATE DETAIL

Scale 1:10



TIE BEAM SECTION - 150x75x5x7 UB

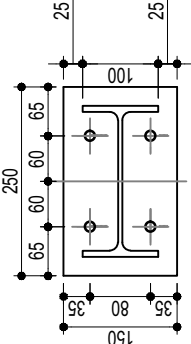
Plate Size : 200x150x10mm Thk MS Plate

No. of Holes & Bolt Dia. :

04 Nos. Holes for 120 Gr8.8 Bolts

STUB BASE PLATE DETAIL

Scale 1:10



STUB SECTION - 200x100x5.5x8 UC

Plate Size : 250x150x10mm Thk MS Plate

No. of Holes & Bolt Dia. :

04 Nos. Holes for 120 400mm Long MS Anchor Bolts

- Notes:
- Steel truss, connection plates and supporting studs shall be of S275
 - Purlin specification - C 150x65x2mm thk. GI Purlin
 - Galvanized threaded bars, 12mm dia. shall be used for all other connections
 - Galvanized threaded bars, 12mm dia. shall be used for tie rods
 - GI nuts & washers, 12mm dia. Grade 4.8 shall be used for tie rods
 - GI nuts & washers, 12mm dia. Grade 4.8 shall be used for tie rods
 - 1.85x30mm with 25mm lap and Max. 60, 8mm thk. Double bubble - 1.0x50m with 50mm lap

PROJECT

IMPROVEMENT OF PROPOSED
OPERATIONAL UNIT ON GEO-SCIENTIFIC
DRILLING EQUIPMENT WORKSHOP AT
ANURADHAPURA, SRI LANKA
WATER RESOURCES BOARD

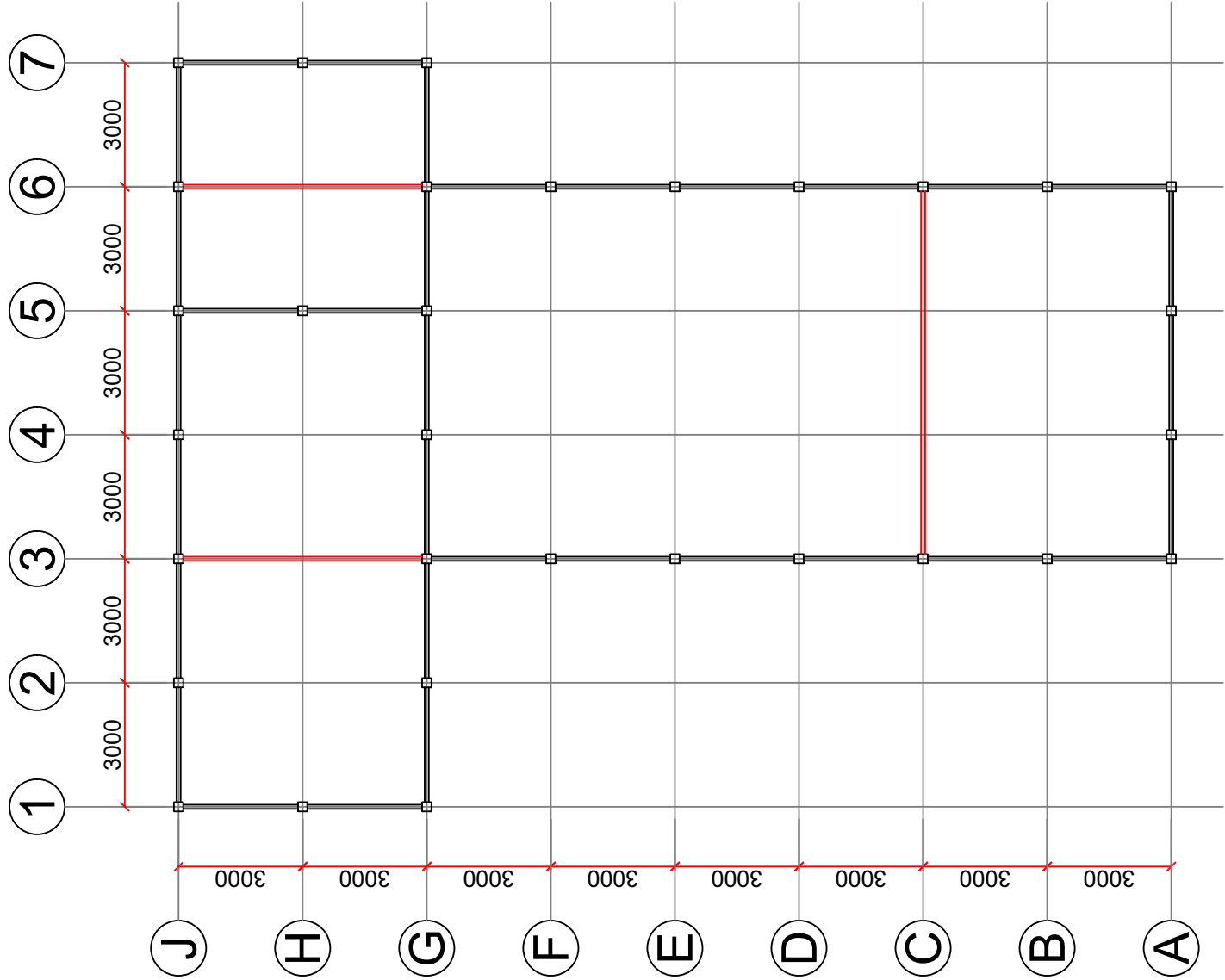
DATE: 09-09-2023 REV: R1

SCALE: AS SHOWN SHEET: A3 - Page 2 of 2

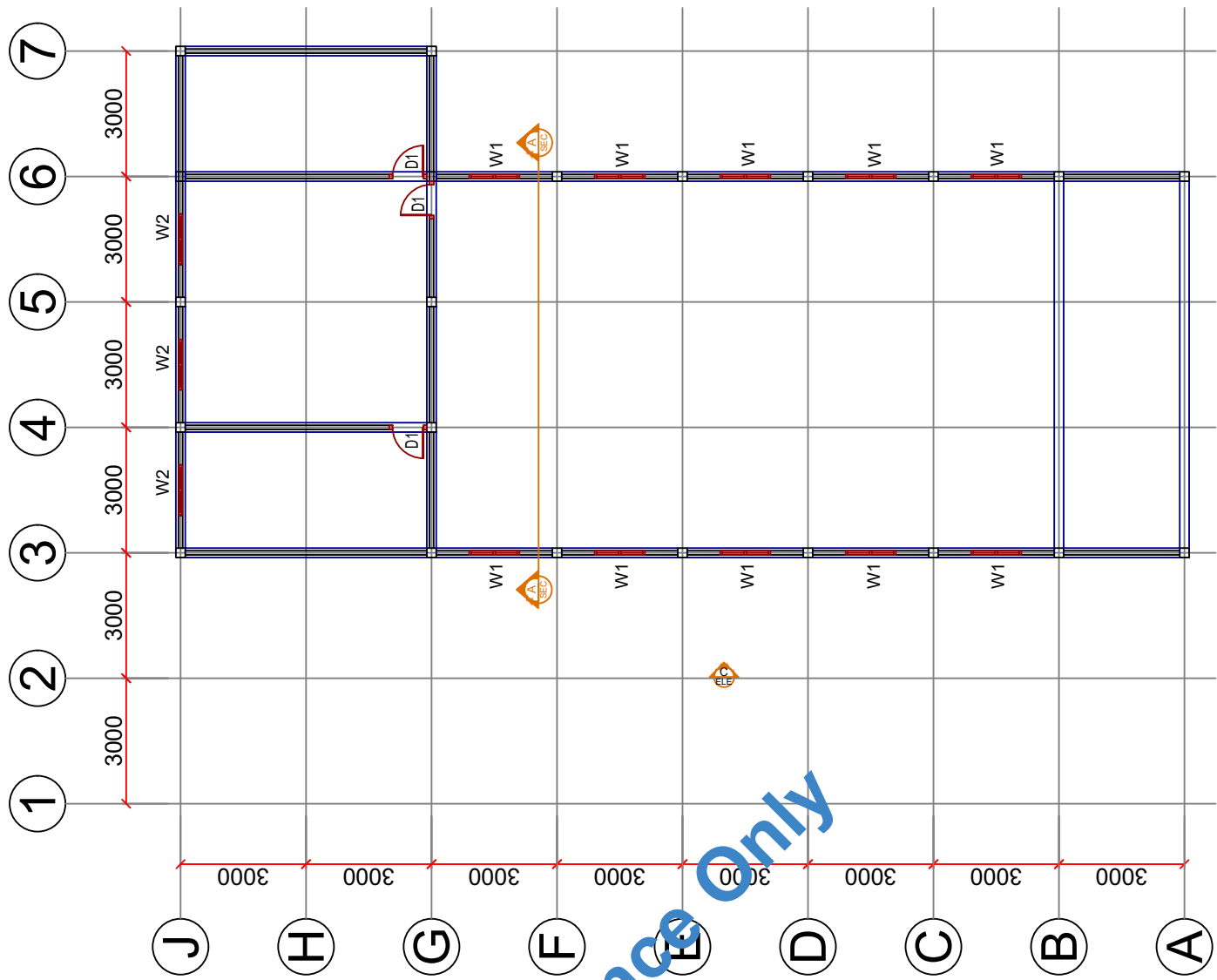
APPROVED BY:

APPROVED BY: DR. J.D. SAMARASINGHE CHAIRMAN
DESIGNED BY:
DRAWN BY: G.G.O.U. PREERA- SIGNER (CIVIL)

WATER RESOURCES BOARD,
NO 488A, NAWALA ROAD, RAJAGIRIYA,
SRI LANKA.

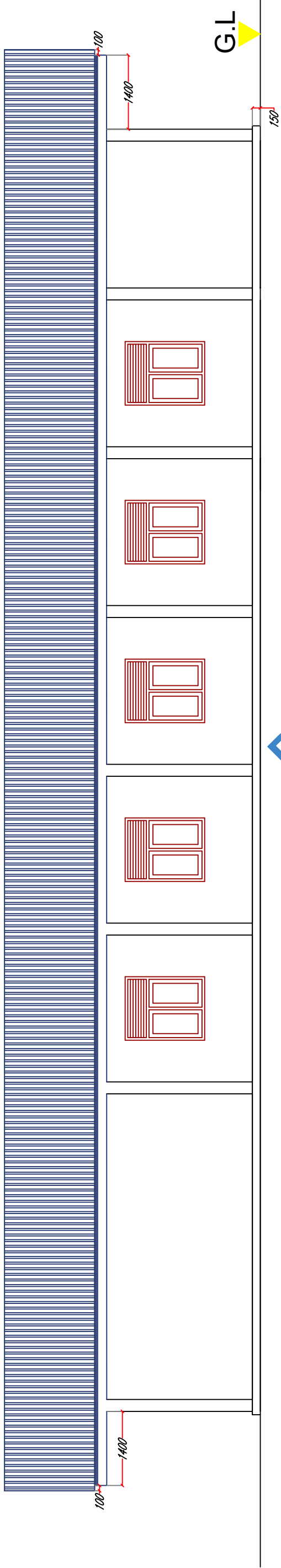


EXISTING LAYOUT



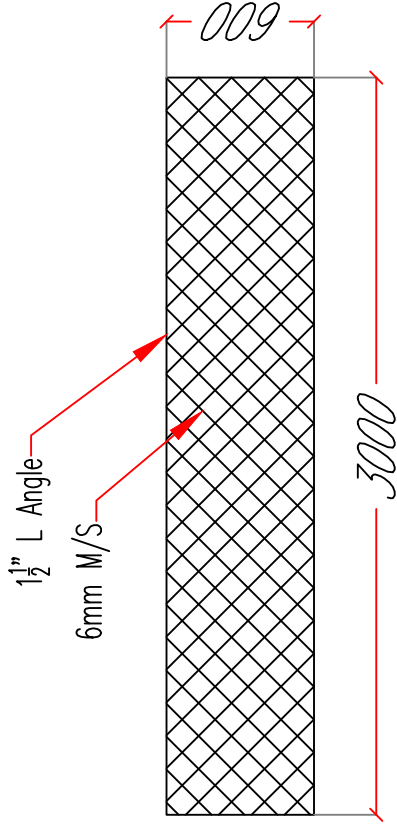
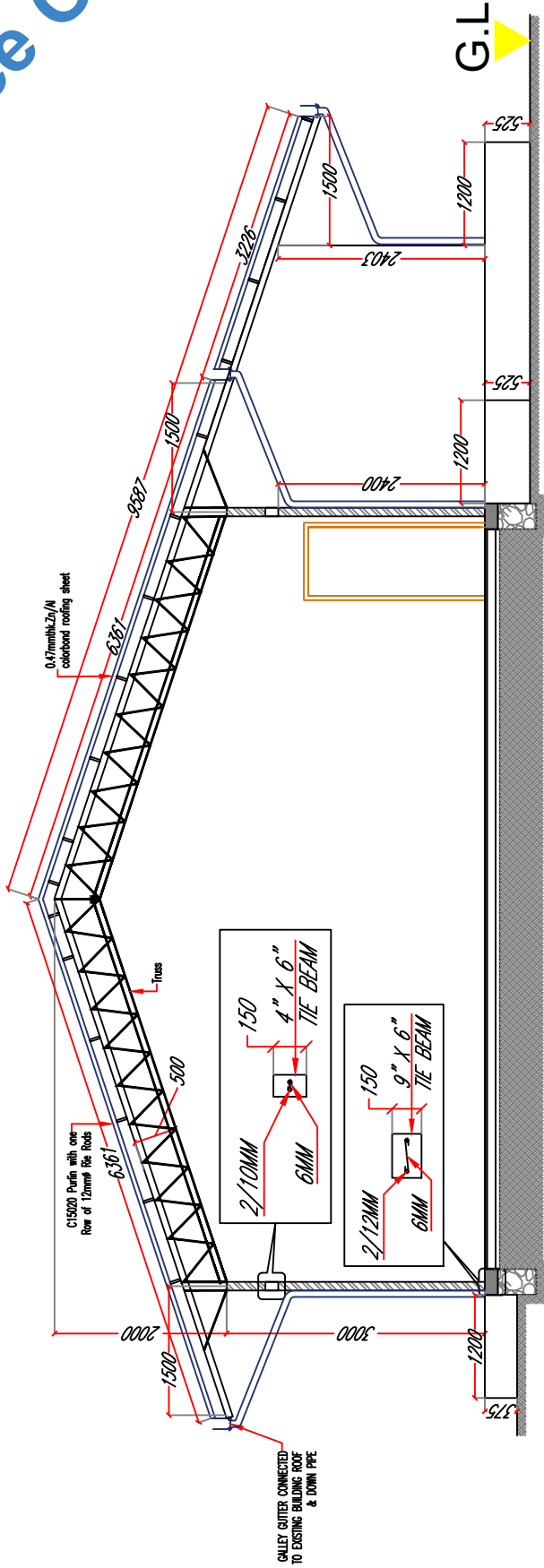
NEW LAYOUT

IMPROVEMENT OF PROPOSED OPERATIONAL UNIT ON GEO-SCIENTIFIC & DRILLING EQUIPMENT WORKSHOP
FOR WATER RESOURCES BOARD AT ANURADHAPURA.



Reference Only

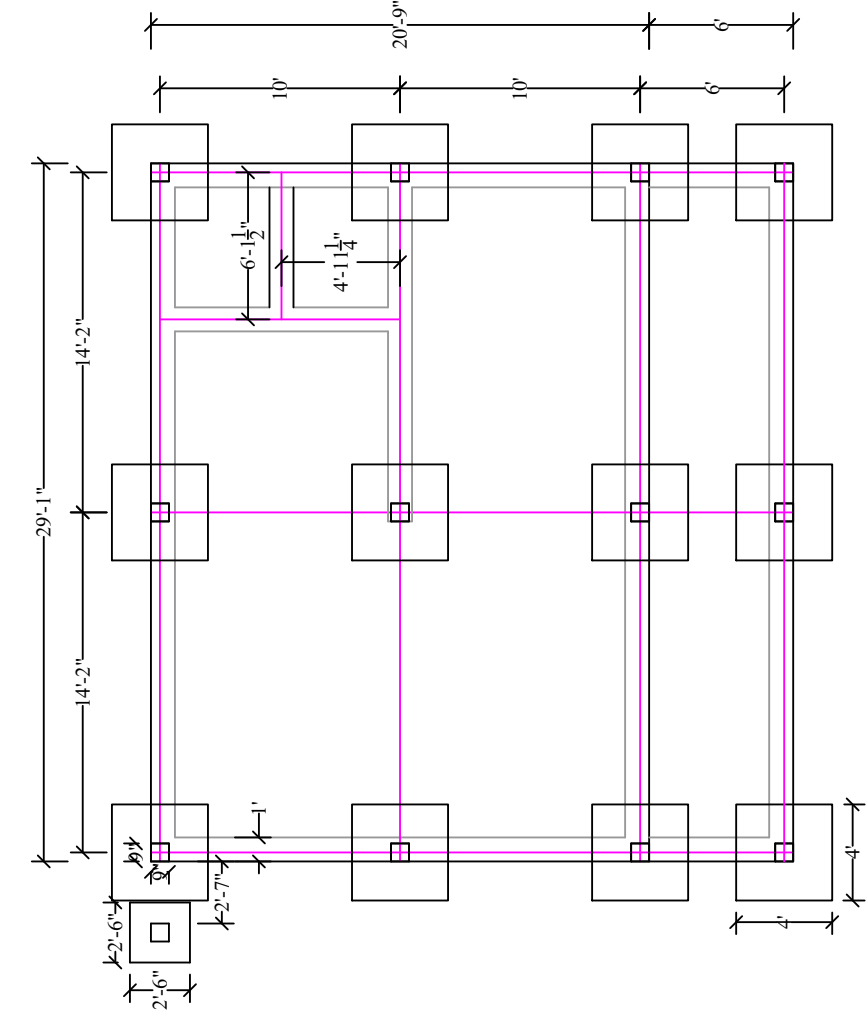
SIDE ELEVATION



IRON GRILLE

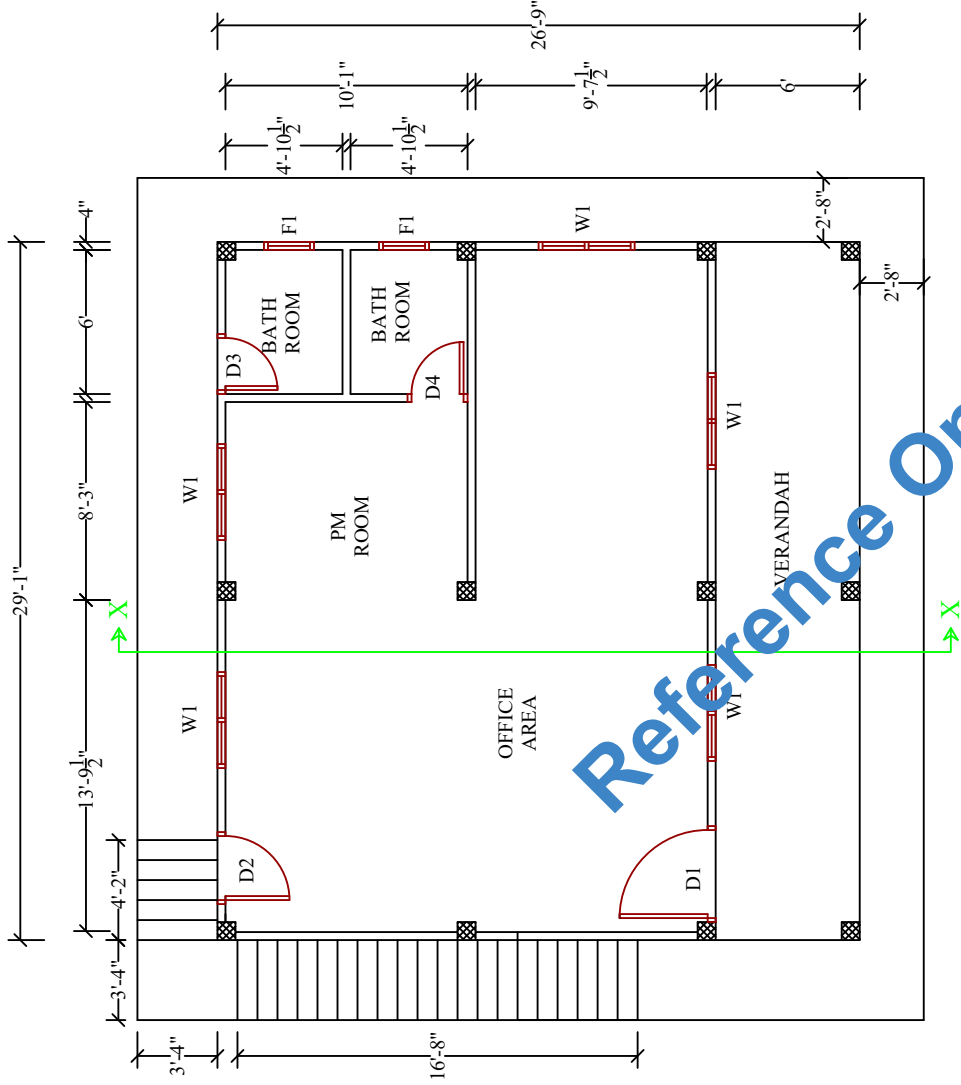
SECTION A-A

IMPROVEMENT OF PROPOSED OPERATIONAL UNIT ON GEO-SCIENTIFIC & DRILLING EQUIPMENT WORKSHOP
FOR WATER RESOURCES BOARD AT ANURADHAPURA.



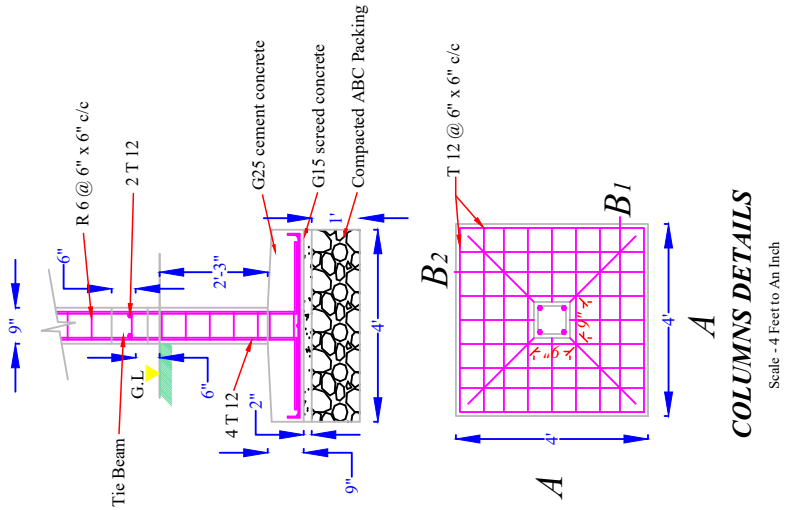
FOUNDATION, COLUMN & BEAM LAYOUT

Scale - 8 Feet to An Inch



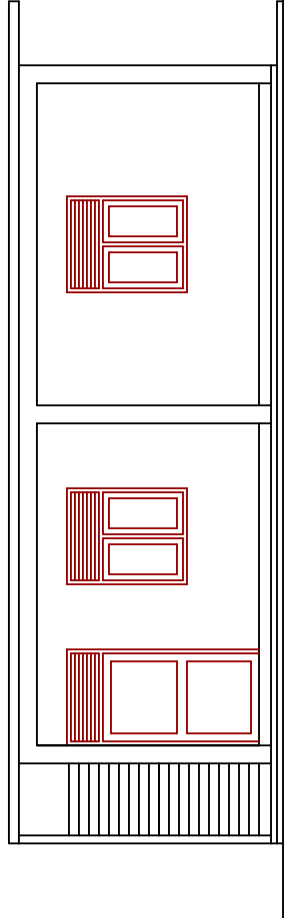
FLOOR LAYOUT

Scale - 8 Feet to An Inch

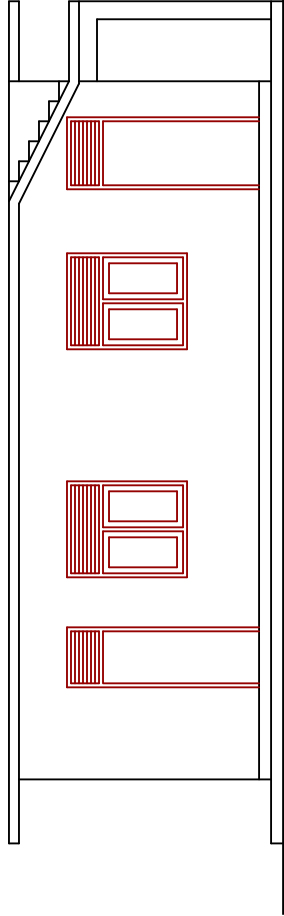


COLUMNS DETAILS

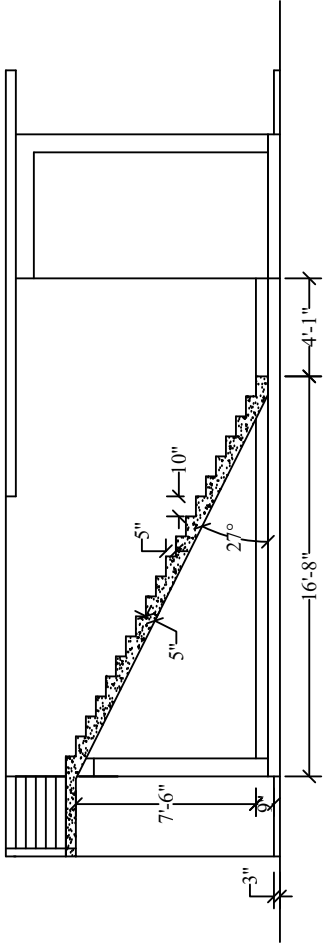
Scale - 4 Feet to An Inch



FRONT ELEVATION



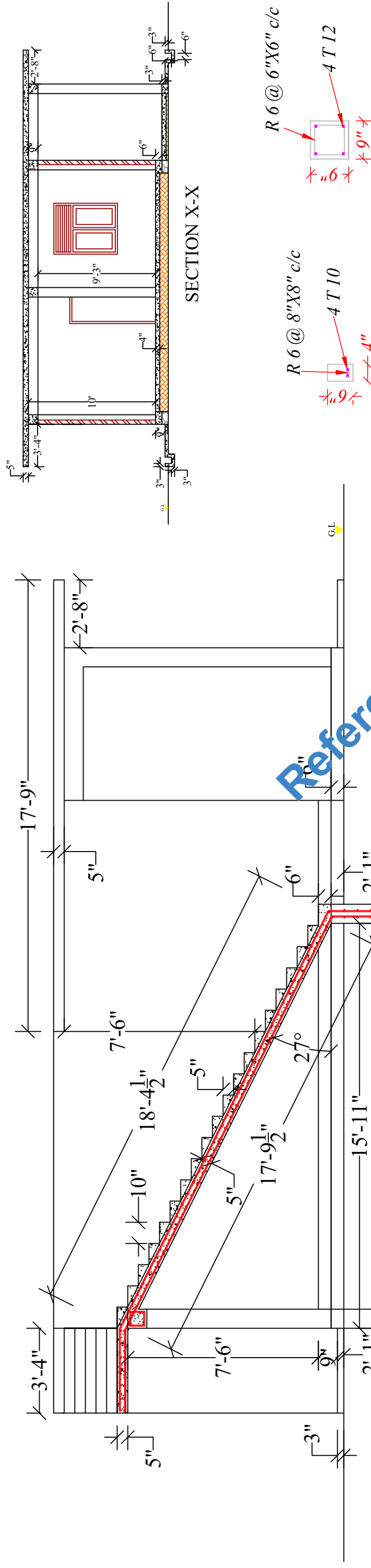
BACK ELEVATION



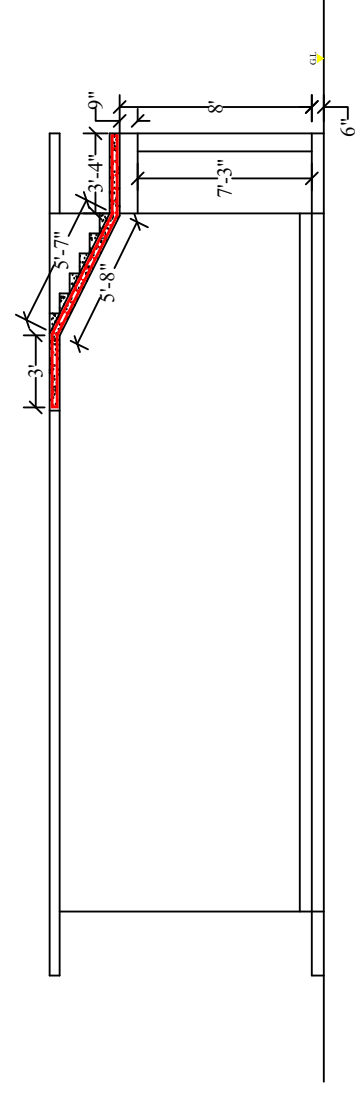
OFFICE SIDE ELEVATION

PROPOSED EXTENSION OF REGIONAL OFFICE FOR GROUNDWATER MANAGEMENT UNIT FOR WATER

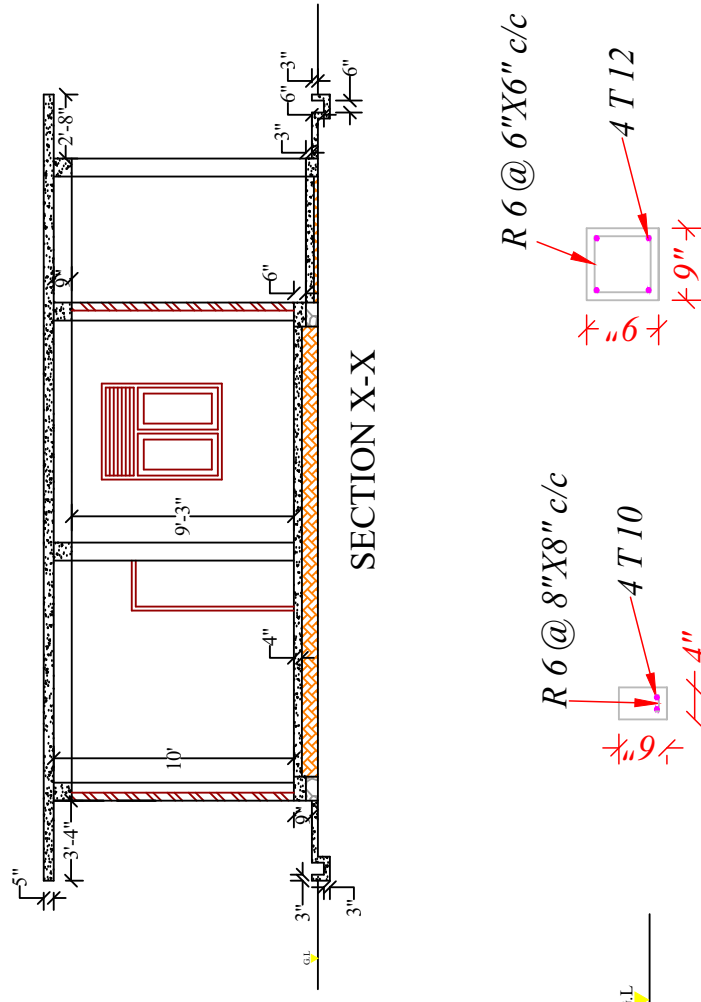
RESOURCES BOARD AT PUTTALAM.



STAIRCASE DETAILS

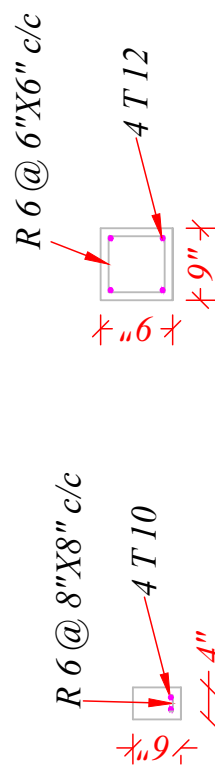


STAIRCASE DETAILS



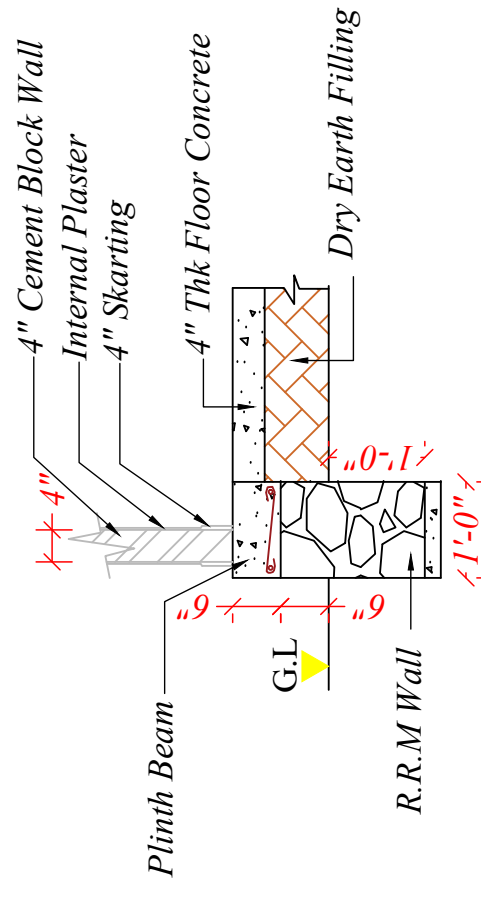
INTEL DETAIL S

Scale - 2 Feet to An Inch



BEAM DETAILS

Scale - 2 Feet to An Inch



STAIRCASE DETAILS

Scale - 2 Feet to An Inch

PROPOSED EXTENSION OF REGIONAL OFFICE FOR GROUNDWATER MANAGEMENT UNIT FOR WATER RESOURCES BOARD AT PUTTALAM.

Reference Only

Section - 11

STANDARD FORMS (BID)

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,
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 **'Renovation of Provisional Ground Water Management Unit (CV-MU) for Water Resources Board – Balance Work'** under Invitation for Bids No. **LK-MOMDT-357503-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 or sums 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 -----