THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF AGRICULTURE, LIVESTOCK, LANDS AND IRRIGATION

PROJECT MANAGEMENT UNIT

Integrated Watershed & Water Resources Management Project

PROCUREMENT OF WORKS UNDER OPEN COMPETITIVE BIDDING - NATIONALLY

Bidding Documents

for

REHABILITATION OF MALLAVI TANK

Contract No: LK-MOMDE-433771-CW-RFB

Issued: 31st July 2025

Bidder Number	
Name	
Address	

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 corresponding clauses in Section 1. Whenever there is a discrepancy, the provisions in Section 2- Bidding Data shall supersede these 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, No.96, Ananda Kumaraswamy Mawatha, Colombo 07.**
1.1	**Scope of Works** The works consists of **Rehabilitation of Mallavi Tank in Vavunikulam Division, Mullaitivu Range under Integrated Watershed & Water Resource Management Project (IWWRMP)** which including i. Construction of Mallavi Tank Bund ii. Construction of Spill Tail Canal Bund (120m Long W-4.5m) iii. Improvement of Spill Tail Canal Bund iv. Construction of Drop Structure Located at **Mallavi in Mullaitivu District**
1.2	**Time for Completion** The Time for Completion for the whole of works **shall be *365 Calendar Days***
2.1	**Source of funds** The source of funds is ***International Development Association (IDA)* – World Bank**
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.
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: Irrigation and Drainage Canals** **Grade: C4 or above**
4.2 (b)	**Average annual volume of construction work performed in last 5 years** Average annual volume of construction work performed in last five years shall be at least **Rs.166.8 Million**

4.2 (c)

At least one works of a nature and complexity similar to the workover the last 10 years shall be **Rs. 75.4 Million** (Excluding VAT).

4.2 (d)

Essential equipment

Proposals for the timely acquisition (own, lease, hire, etc.) of the following essential equipment **shall be;**

No.	Equipment Type and Characteristics	Min. Number Required
1	Crawler excavator - 120 HP, Bucket capacity 1.0 m^3	2
2	Dozer D4D, D6	1
3	Loader backhoe	1
4	Concrete mixers 1 m^3	2
5	Tractor with trailers	2
6	Porker vibrators	2
7	Transport equipment / Tipper	2
8	Water Bowser with sprinkler 5000 L Capacity	2
9	Mobile Generator	2
10	Plate Compactor	1
11	Rammer	1
12	Vibrating Sheep foot roller not less than 10 Ton	1
13	Water pump 2 inch dia	1

4.2 (e)

Qualifications and experience of the Contract Manager and other Key personnel

Key personnel	Qualifications	No. of Position	Experience	Similar work Experience
1. Project Manager	Engineering Degree or equivalent qualification in Relevant field	1	08 Yrs	03 Yrs
2. Site Engineer	B.Sc. (Civil Engineering) degree or equivalent-Full time	1	05 Yrs	03 Yrs
3. Environmental and Social Officer	Degree or equivalent qualification in Relevant field	1	02 Yrs	01 Yr

	4. Health and Safety Officer	Degree or equivalent qualification in Relevant field	1	02 Yrs	01 Yr
	5. Engineering Assistant (Civil)	NDT or equivalent	2	03 Yrs	01 Yr
	6. Work Supervisor (Civil)	NCT	2	03 Yrs	01 Yr

The Bidder must demonstrate that it will have suitably qualified Project Manager and suitably qualified other key personnel in adequate numbers, as described in the table above.

4.2 (f)

Liquid assets and/or credit facilities required

The minimum amount of liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract**, shall be not less than Rs. 27.8 million**

8.3

The employer may conduct a site visit concurrently with the pre-bid meeting referred to in Clause 19.

The site visit will be conduct as follow.

Date & Time: **12th August 2025 at 10.00 a.m**
Commencing Venue: **Irrigation Engineer's Office, Vavunikulam, Mullaitivu**

10.1

Clarification of Bidding Documents

Employer's address for clarification of bidding documents is:

Name of Officer: **Project Director, IWWRMP**
Address: **2nd Floor, Mahaweli Centre Building,**
No. 96, Ananda Kumaraswamy Mawatha, Colombo 07.
Phone: **0112691163**
Facsimile: **0112691163**
E-mail: iwwrmp@sltnet.lk

13.1(A) (j)
13.1(B) (d)

The Bidder shall submit the following additional documents in its Bid:

Code of Conduct (ESHS)

The Bidder shall submit its Code of Conduct that will apply to Contractor's Personnel (as defined in Sub-clause 1.1.2.7 of the GC), to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract. *[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.]*

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. *[**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.]*
14.4	**Adjustments for change in cost** The Contract **is subjected** to price adjustment
15.1	**Currency of Bid** Rates and prices shall be quoted by the bidders entirely in ***Sri Lankan rupees***.
16.1	**Period of Bid validity:** **The Bid shall be valid up to 119 D**ays from the bid submission deadline date **26th December 2025**
17.1	**Amount of Bid security:** The amount of Bid Security is Sri Lanka Rupees: **One Million Four Hundred Thousand Sri Lanka Rupees (LKR 1,400,000.00)** 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 document (Section 11).
17.2	**Validity of Bid Security** The Bid Security shall be valid up to 147 Days from the date of closing of the bids (including closing date) **23rd January 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** Pre-Bid meeting ***will be held.*** Venue, time, and date of the pre-bid meeting. **Date: 14th August 2025** **Time:** 11.00 am **Venue:** PMU Conference room, Integrated Watershed & Water Resources Management Project 2nd Floor, Mahaweli Centre Building, No.96, Ananda Kumaraswamy 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 Kumaraswamy Mawatha,** **Colombo 07.**
21.2 (b)	**Identification number of Contract** Identification Number of the Contract is: **LK-MoMDE-433771-CW-RFB**
22.1	**Deadline for submission of Bids** Deadline for submission of Bids**: 29th August 2025** Time: **2.00 PM**
25.1	**Bid opening** **Venue, time, and date of bid opening.** **Venue:** PMU Conference Room, IWWRM Project, 2nd Floor, Mahaweli Centre Building, No.96, Ananda Kumaraswamy Mawatha, Colombo 07. **Time:** 2:00 PM **Date:** 29th August 2025.
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 …… ***(date).*** Performance Guarantee shall only be an unconditional guarantee issued by a bank recognized by the Central Bank of Sri Lanka in accordance with the format given. 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.

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 these 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: 2nd Floor, Mahaweli Centre Building, No.96, Ananda Kumaraswamy Mawatha, Colombo 07.
1.3	Contractor's name and address	Name: …… Address: …….
(*) 1.1.2.4 & 1.3	Engineer's name and address	Name: Deputy Director of Irrigation, Mullaitivu Range Address: Office of the Deputy Director of Irrigation, Mullaitivu Range, A9 Road, Mankulam Mullaitivu.
	Engineer's Representative name and address	Name: Divisional Irrigation Engineer, Vavunikkulam Division. Address: Divisional Irrigation Engineer's Office, Vavunikkulam Division, Vavunikkulam.
1.1.2.5 **Contractor's Personnel**	**Key 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 **365 calendar Days from the commencement date.**

(*) 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 variations exceed 5% of the Contract Price
4.1 Contractor's General Obligations	Insert in the fifth paragraph after the words "*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.*" "Notwithstanding Sub-Clause 8.1, the Contractor shall not carry out any Works, including mobilization and/or pre-construction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits), unless the Engineer is satisfied that appropriate measures are in place to address environmental, social, health and safety risks and impacts. At a minimum, the Contractor shall apply the Management Strategies and Implementation Plans and Code of Conduct, submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit, on a continuing basis, for the Engineer's prior approval, such supplementary Management Strategies and Implementation Plans as are necessary to manage the ESHS risks and impacts of ongoing works. These Management Strategies and Implementation Plans collectively comprise the Contractor's Environmental and Social Management Plan (C-ESMP). The C-ESMP shall be approved prior to the commencement of construction 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 "*demand guarantee"* 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) an 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 (lost time) injury; (c) significant adverse effects or damage to private property (e.g. vehicle accident, damage from fly rock, working beyond the boundary) (d) major pollution of drinking water aquifer or damage or destruction of rare or endangered habitat (including protected areas) or species; or (e) any allegation of gender-based violence (GBV), sexual exploitation or abuse, sexual harassment or sexual misbehavior, rape, sexual assault, child abuse, or defilement, or other violations involving children.

6.8 Contractor's Personnel

Key Personnel

Key personnel	Qualifications	No. of Position	Experience	Similar work Experience
1.Project Manager	Engineering Degree or equivalent qualification in Relevant field	1	08 Yrs	03 Yrs
2.Site Engineer	B.Sc. (Civil Engineering) degree or equivalent- Full time	1	05 Yrs	03 Yrs
3.Environmental and Social Officer	Degree or equivalent qualification in Relevant field	1	02 Yrs	01 Yr
4.Health and Safety Officer	Degree or equivalent qualification in Relevant field	1	02 Yrs	01 Yr
5.Engineering Assistant (Civil)	NDT or equivalent	2	03 Yrs	01 Yr
6.Work Supervisor (Civil)	NCT	2	03 Yrs	01 Yr

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.

<table>
<tr><td>(*) 8.7</td><td>Maximum amount of liquidated damages</td><td>5 % of the Initial Contract Price</td></tr>
<tr><td>12.2 (b)</td><td>Method of Measurement</td><td>The Method of Measurement shall be joint measurement and annexed in Section 8</td></tr>
<tr><td>13.3 Variation procedure</td><td colspan="2">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;”</td></tr>
<tr><td>(*) 13.4(b)</td><td>Percentage for adjustment of Provisional Sums</td><td>10 %</td></tr>
<tr><td>13.7 Adjustment for changes in Cost</td><td colspan="2">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.”</td></tr>
<tr><td>13.7</td><td>Weightings of Inputs</td><td>
<table>
<tr><th>Indices No</th><th>Input Name</th><th>Input Percentage</th></tr>
<tr><td>M8</td><td>Sand</td><td>22.72</td></tr>
<tr><td>P3</td><td>Fuel</td><td>19.89</td></tr>
<tr><td>L2</td><td>Unskilled Labour</td><td>13.27</td></tr>
<tr><td>P1</td><td>Small Equipment</td><td>12.55</td></tr>
<tr><td>P2</td><td>Heavy Equipment</td><td>12.04</td></tr>
<tr><td>M44</td><td>Hume pipes</td><td>4.14</td></tr>
<tr><td>M3</td><td>Cement</td><td>3.27</td></tr>
<tr><td>M7</td><td>Metal</td><td>1.51</td></tr>
<tr><td>L1</td><td>Skilled Labour</td><td>0.61</td></tr>
<tr><td colspan="2">Total</td><td>90%</td></tr>
</table>
Nonadjustable element shall be:
All P.sum & L.sum items</td></tr>
<tr><td>(*) 14.2</td><td>Total Advance Payment</td><td>20 % of the Initial Contract Price excluding provisional sums and contingencies, will be made upon the submission of the “Un Conditional Demand” Advance Guarantee which is obtained from the Bank registered under Central Bank, Sri Lanka.

The payment will be made with the recommendation of Engineer to the Contract.</td></tr>
<tr><td>(*) 14.3(c)</td><td>Percentage of retention</td><td>10 %</td></tr>
<tr><td>(*) 14.3(c)</td><td>Limit of Retention Money</td><td>5 % of the Initial Contract Price</td></tr>
</table>

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.

<table>
<tr>
<td>(*) 18.2</td>
<td>Third Party Insurance</td>
<td>This Amount of insurance per occurrence is:
<table>
<tr><td></td><td>Minimum Insurance Amount</td><td>Maximum Deductible</td></tr>
<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 Equipments</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: (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>
</table>
</td>
</tr>
<tr>
<td></td>
<td colspan="2"><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</td>
</tr>
</table>

Appendix A

A general conditions of dispute adjudication agreement, Procedural rules & Dispute adjudication agreement.

As given in Section – 4 of the Standard Bidding Document for Procurement of Works, Major Contracts, ICTAD Publication No. ICTAD/SBD/02, second Edition, January 2007, published by the Institute for Construction Training and development (ICTAD), presently known as CIDA, Construction Industry Development Authority.

APPENDIX TO CONTRACT DATA

APPENDIX A

A General Conditions of Dispute Adjudication Agreement

1. Definitions

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

(a) the "Employer";

(b) the "Contractor"; and

(c) the "Member" who is defined in the Dispute Adjudication Agreement as being one of the three persons who are jointly called the "DAB" (or "Dispute Adjudication Board") and, where this is the case, the other two persons are called the "Other Members."

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

2. General Provisions

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

(a) the Commencement Date defined in the Contract,

(b) when the Employer, the Contractor and the Member have each signed the Dispute Adjudication Agreement, or

(c) when the Employer, the Contractor and each of the Other Members have respectively each signed a Dispute Adjudication Agreement.

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

3. Warranties

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

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

(a) experienced in the work which the Contractor is to carry out under the Contract,

(b) experienced in the interpretation of contract documentation, and

(c) fluent in the language for communications defined in the Contract.

4. General Obligations of the Member

The Member shall:

(a) have no interest financial or otherwise in the Employer, the Contractor or Engineer, nor any financial interest in the Contract except for payment under the Dispute Adjudication Agreement;

(b) not previously have been employed as a consultant or otherwise by the Employer, the Contractor or the Engineer, except in such circumstances as were disclosed in writing to the Employer and the Contractor before they signed the Dispute Adjudication Agreement;

(c) have disclosed in writing to the Employer, the Contractor and the Other Members, before entering into the Dispute Adjudication Agreement and to his/her best knowledge and recollection, any professional or personal relationships with any director, officer or employee of the Employer, the Contractor or the Engineer, and any previous involvement in the overall project of which the Contract forms part;

(d) not, for the duration of the Dispute Adjudication Agreement, be employed as a consultant or otherwise by the Employer, the Contractor or the Engineer, except as may be agreed in writing by the Employer, the Contractor and the Other Members;

(e) comply with the annexed procedural rules and with Sub-Clause 19.4 (Obtaining Dispute Adjudication Board's Decision) of the Conditions of Contract;

(f) not give advice to the Employer, the Contractor, the Employer's Personnel or the Contractor's Personnel concerning the conduct of the Contract, other than in accordance with the annexed procedural rules;

(g) not while a member enters 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 form's 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 sub-paragraphs (b) and (c) of this Clause.

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

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

(b) a daily fee which shall be considered as payment in full for:

(i) each day or part of a day up to a maximum of two Days travel time in each direction for the journey between the Member's home and the site, or another location of a meeting with the Other Members;

(ii) each working day on Site visits, hearings or preparing decisions; and

(iii) each day spent reading submissions in preparation for a hearing.

(c) all reasonable expenses including necessary travel expenses (hotel and subsistence and other direct travel expenses) incurred in connection with the Member's duties, as well as the cost of telephone calls, courier charges, and faxes: a receipt shall be required for each item in excess of five percent of the daily fee referred to in sub-paragraph (b) of this Clause.

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

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

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

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

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

7. Termination

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

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

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

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

8. Default of the Member

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

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

9. Disputes

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

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 endeavor 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 provision. 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:_____	SIGNED by:_____	SIGNED by:_____
for and on behalf of the employer in the presence of	for and on behalf of the Contractor in the presence of	the Member in the presence of
Witness:_____	Witness: _____	Witness : _____
Name: _____	Name: _____	Name : _____
Address:_____	Address: _____	Address : _____
Date: _____	Date: _____	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 mitigations and issues (what has been done):

i. dust: number of working bowsers, 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.

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 construction and remedying defects of the **Rehabilitation of Mallavi Tank LK-MoMDE-433771-CW-RFB** for the Contract price of ----------[*name of currency]*----------[*amount in figures and words]* as corrected in accordance with Instructions to Bidders and/ or modified by a Memorandum of Understanding , is hereby accepted.

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

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

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

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

Authorized Signature : ……

Name and title of Signatory : …….

FORM OF AGREEMENT

This Agreement made the ……. *[day]* of …… *[month]* 200….. *[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 **Rehabilitation of Mallavi Tank LK-MoMDE-433771-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-433771-CW-RFB** dated ---------- with you, for the ---------- *[insert "construction"]* of **Rehabilitation of Mallavi Tank.** (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.

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

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

_____

[signature(s)]

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

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-433771-CW-RFB** dated ---------- with you, for the ---------- construction of **Rehabilitation of Mallavi Tank.** (hereinafter called "the Contract").

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

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

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

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

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

_____

[signature(s)]

FORM OF RETENTION MONEY GUARANTEE

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

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

Date: ----------

RETENTION MONEY GUARANTEE No.: ----------

We have been informed that ---------- *[name of Contractor]* (hereinafter called "the Contractor") has entered into Contract No. ***LK*-MoMDE-433771-CW-RFB** *[reference number of the contract]* dated ---------- with you, for the execution of **Rehabilitation of Mallavi.** (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 sums not exceeding in total an amount of ----------*[amount in figures]* (----------) *[amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor has not attended to the defects in accordance with the Contract..

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

_____

[signature(s)]

Form of ESHS Declaration

Date: _____
Bid No.: _____

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

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

Year	**Suspended or terminated portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and US$ equivalent)**
[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)
[insert year]	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 calling of performance security: *[indicate main reason(s) e.g. for GBV/ SEA breaches]*		*[insert amount]*

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)

THE WORLD BANK

IWWRMP

Integrated Watershed and Water Resources Management Project (IWWRMP)

MINISTRY OF IRRIGATION

Environmental and Social Management Plan and Environmental and Social Screening Report for the Rehabilitation of Dams & Canals in Northern Province

REHABILITATION OF MALLAVI TANK

MARCH 2023

1. ENVIRONMENTAL AND SOCIAL SCREENING DECISIONS

Note: The anticipated impacts described in this section are mainly for the construction phase only. However, any impacts that are induced during operational stages (if any) are also presented where applicable. The impacts are confined to negative impacts, as the positive impacts as a result of improved dam safety, and improved operational capacities of Headworks are obvious and perceived.

Impacts were classified into the following categories:

- No: Environmental effects are perceived to have been no change at all.
- Low: Environmental effects are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource.
- Moderate: Environmental effects are sufficient to noticeably alter important attributes of the resource but not to destabilize them.
- High: Environmental effects are clearly noticeable and are sufficient to destabilize the resource.

	Screening question	Yes	No	Significance of the effect	Remarks
Project Design – Mallavi Kulam tank					
a.	**General**				
1	Will the sub project include any physical construction work?	√		High	The proposed interventions - 1. Rehabilitation and improvements of the Tank Bund; 2. Reconstruction of LB Sluice Tower (converting for 600 mm dia. gear wheel type sluice 3. Construction of (300 mm x 450 mm) Canal Lining of FC-02 of RB Main Canal from 0+000 m to 0+198 m; 4. Construction of (300 mm x 450 mm) Canal Lining of FC-03 of RB Main Canal from 0+000 m to 0+200 m; 5. Formation of RB Main Canal Road (3 m width & 700 m length); 6. Formation of LB Main Canal Road (3 m width & 1800 m length);
2	Does the project include upgrading or rehabilitation of existing physical facilities?	√		High	As indicated under above item 1, it has been planned to rehabilitate only the existing facilities.
b.	**Rehabilitation of dam head works and rip rap associated irrigation infrastructure**				
3	Will improvements to tank bund including the head works and rip rap structures require the water level in the reservoir to be artificially drawn down?	√		Medium	The water level needs to be lowered to facilitate the above-mentioned construction works. .
4(i)	If yes, can this lead to any alteration of water flows in surface as well as groundwater sources, especially in the dry		√		Water loss due to natural phenomena (evaporation & transpiration) and because of seepage, storage of the tank is less and water level is low, during the dry season. Therefore, construction activities which need water level to be artificially drawn down do not result significant effects as regards to alterations of water flows

	Screening question	Yes	No	Significance of the effect	Remarks
	season?				(surface & ground water). As informed by the community, some are provided with piped water in the town area, and people in the interior areas depend on groundwater for drinking and other domestic purposes. During the dry season, the groundwater level drops. Even during the dry spell, there is no reason to be concerned about drinking water availability or quality. Tank water is not used for any other socioeconomic purpose, like bathing, washing, or any other industrial purpose. However, people, mostly men, gather around the tank for leisure activities.
4(ii)	Will the water draw down affect the ecology of the tank and other important wetlands that depend on the main lake and canal system to maintain water level?		√		There won't be a significant effect from this, as the construction is proposed during the Yala season.
5	Will repairs to irrigation canals require temporary suspension of water issuance in order to facilitate civil works? Can this lead to diminishing of other downstream water uses that can result in social issues such as community bathing, drinking water supplies, irrigation of home gardens etc.	√		Low	Well planned stretch by stretch segments along the canal length can be lined while by passing the water through this stretch where the lining being in progress without affecting the downstream requirements.

	Screening question	Yes	No	Significance of the effect	Remarks
6	Will civil works lead to diminishing of other downstream water uses as a result of water quality impairment?	√		Low	Critical Civil Works has to be carried out during the Yala season when the paddy cultivation is planned to be foregone and therefore impact is less. As the construction is proposed to be done during the Yala season, when the water levels are low. There won't be a huge impact ecologically to the area. Especially around the proposed area of work.
7	Will there be changes to original design levels of the head works that will result in inundation of new land in the catchment		√		No there will not be design level changes and further inundation issues.
8	Will the rehabilitated scheme serve new areas of paddy under its command?		√		No, there will not be changes to the existing command area, As the water storage of the tank is not sufficient to serve the total command area Yala cultivation is low, but with the proposed improvements cultivation extent can be enhance under its present command.
c.	**Additional supplementary facilities**				
9	Will there be construction of new irrigation or drainage canals or widening of existing canals?		√		A small section of the existing canals will be rehabilitated without changing its width or depth. There will be no detrimental effects on communities or common properties as a result of the proposed canal renovation.
9(i)	If yes, will new/modified canal trace/alignments interfere with existing land uses (habitats, home gardens) in a negative way?		N/A		Since no new construction, this is not applicable.
9(ii)	If yes, will the trace interfere with other sensitive infrastructure such as roads, pedestrian paths,		N/A		Since no new construction, this is not applicable

	Screening question	Yes	No	Significance of the effect	Remarks
	schools and temples?				
Project Construction					
10	Will construction and operation of the Project involve actions which will cause physical changes in the locality (topography, land use, changes in waterbodies, etc)		√		The proposed physical interventions are only rehabilitation works for existing hydrological structures and processes; thus, changes in topographical parameters and land use patterns are not expected. Even if yes, rehabilitation projects don't involve with severe physical changes
11	Will construction of the project cause soil erosion within the site due to steep grade or soil content?	√		Low	The soil type in the tank area is primarily composed of alluvial soil and as reported highly impervious underground layer. Gravel-rich soil can be observed in some areas, particularly in the area above FSL and below HFL. The area has no inherent soil erosion problems. However, during the construction phase, chances remain for soil erosion that should be mitigated. (Proposed construction activities have been outlined in detail under No. 1 above).
12	Will the Project involve dredging and disposal of dredge material as well as other solid wastes during construction?		√		There is no dredging listed among the project activities. But considerable excavation is required for obtaining the required earth from the tank bed and paddling construction activities. Even now, massive amounts of solid waste are accumulating due to human activities immediately downstream of the tank bund. The project produced solid waste, such as cleared scrub jungle, food waste, and other solid waste, from material and construction activities.
13	Will the Project release pollutants or any hazardous, toxic or noxious substances to air?	√		Low	Exhaust gases released during the burning of fossil fuel by construction equipment, machinery, and vehicles contribute to the deterioration of existing air quality. A major impact is not expected.
14	Will the Project cause noise and	√		Low	The operation of various machinery and equipment at the site shall emit noise at

	Screening question	Yes	No	Significance of the effect	Remarks
	vibration or release of light, heat energy or electromagnetic radiation?				varying levels, and with the use of heavy types of machinery such as backhoes, excavators, roller compactors, and material transport vehicles, project-induced sounds and vibrations are expected. Because the tank is within 750 m to 1 km of the surrounding communities, no significant impact is expected. In general, the noise levels will be increased during the construction stage. Night-time flashlights (if used) will have an impact, especially on the nocturnal fauna. Project-induced heat energy or electromagnetic waves are not expected.
15	Will the Project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater?	√		Low	Project generated pollutant will be the wastewater, used oil, various solid water etc. The main source of wastewater discharges is from labour camps. If required, workers are brought from outside the project area, where they will need to be provided with accommodation. Wastewater, including wash water and sanitation units, can cause pollution if they are poorly sited, constructed, or leaking. But this risk can be mitigated with good planning and supervision. Spillage of stored oil, grease, kerosene, and petrol which need to operate equipment, machinery or vehicles or direct discharge of used oil and wash water to land or waterways in or outside the site shall lead to contamination of soil and surface water around. Servicing of construction vehicles within the site can lead to the release of pollutants like wash water, oil, grease, etc., which shall lead to contamination of surface soil and water. All the above scenarios should be mitigated by applying appropriate mitigatory measures and monitoring. Aside from the sources, no other sources of groundwater or surface water pollution have been identified in relation to project activities.
16	Will the project cause localized flooding and poor drainage during		√		The proposed civil works may not cause localized flooding or block natural drainage paths, and most notably, the desired works will be implemented during the season

	Screening question	Yes	No	Significance of the effect	Remarks
	construction? Is the project area located in a flooding location?				when the area receives little or no rain. On the other hand, stockpiling, temporary huts, and other similar activities may cause water stagnation, which can be mitigated by good construction practices, During the water draw down of the tank will not cause flooding or drainage issues as a heavy floor of water is envisage.
17	Are there any areas or features of high landscape or scenic value on or around the location which could be affected by construction activity?		√		The downstream side of the tank is filled with solid waste discarded by the locals. This appears over the natural beauty of the surrounding area. Further to this scenario, the operating and parked machinery, projected earthworks, dust emissions, and other diverse human activities may potentially detract from the area's scenic charm. However, this will only be temporary during the construction period
18	Are there any other areas on or around the location which are important or sensitive for reasons of their ecology e.g. wetlands, watercourses or other waterbodies, the coastal zone, mountains, forests which could be affected by the project?		√		No there are no such sensitive places.
19	Are there any areas on or around the location which are used by protected, important or sensitive species of fauna or flora e.g. for breeding, nesting, foraging, resting, migration, which could be affected by the project?		√		The area is disturbed and no species of concern was recorded from the site.

	Screening question	Yes	No	Significance of the effect	Remarks
20	Will any part of the project's construction activities be located in a previously undeveloped area where there will be loss of greenfield land?		√		There area around the project area is disturbed with many paddy fields and other area used for various cultivations. And the proposed rehabilitation work doesn't impact any green fields pr undeveloped areas.
d.	**Land related impacts**				
21	Will the sub-project require acquisition of land and or other assets?		√		No land acquisition is envisaged. The proposed civil works are within the available land. The tank is under the jurisdiction of the Provincial Irrigation Department. Farmers own the command areas. A New 1 km access road is included in the design in addition to the existing road. The land identified for the new road belongs to Provincial Irrigation Department
22	Is land for material mobilization or transport for the civil work available within the identified work site / Right of way?	√		Moderate	Yes, material stock piling yard and proper access route to the site to transport the material is available the tank is located within 1-2 km form the Mallavi town, access would not be an issue.
23	Is the site chosen for this work free from any encumbrances (e.g. squatters, encroachers)?		√		There are no encumbrances.
24(i)	If the land parcel is to be acquired, is the actual plot size and ownership status known? If so, how much?		√		No Land acquisitions.
24(ii)	Will the affected land/structure		√		No losses to the private properties

	Screening question	Yes	No	Significance of the effect	Remarks
	owners likely to lose less than 10% of their land/structures area?				
24(iii)	If any land required for the work is privately owned, will this be purchased or obtained through voluntary donation?		√		No land acquisition for the proposed rehabilitation work.
24(iv)	Are the land/structure owners willing to voluntarily donate the required land for this sub-project?		√		This is not applicable
25	Is the project likely to cause partially or fully damage to, or loss of housing, shops, or other resource use?		√		No any damages to external properties.
26	Are there any routes or facilities on or around the location which are used by the public for access to recreation or other facilities, which could be affected by the project?	√		Moderate	The access road to the site which the general public will be used for the material transportation and other related transportation work. Heavy vehicle may cause certain damages to the road which should be rehabilitated.
e.	**Livelihoods Related Impacts**				
27	Are there any non-titled people (squatters) who are living/ or doing business who may be partially or fully affected because of the civil works?		√		No such non titled people to be affected.

	Screening question	Yes	No	Significance of the effect	Remarks
28	Will there be damage to agricultural lands, standing crops, trees, etc.?		√		There are no damages to agricultural lands.
29	Will there be any permanent or temporary loss of income and livelihoods as a result of the civil works? If so, for what period?	√		High	As pe the rehabilitation work, One Yala cultivation period has to be forgone, the construction should be started early April and by September bund improvement work should be completed to store the water during Maha season to serve for next Yala period. Since farmers are not getting water during the Yala cultivation there will be temporary loss of income. With proper livelihood assistance plan this impact can be minimized. There will not be permanent income loss as after the rehabilitation work farmers can enhance the cultivation extent with more storage of water, as they only have to forgo one Yala season. Since the Individual fishing is not permitted in the tank and fishing is done on tender basis, fishermen will not be impacted.
29(i)	Have these people/ businesses who may suffer temporary loss of incomes or livelihoods been surveyed and identified for payment of any financial assistance?	√		High	The following personals identified as affected. 1. Farmers (Owner farmers, and the farmers cultivating under various forms of land tenure), 2. Agriculture Labors The above people will be entitled for one of livelihood support assistance plan. It would be cash assistance or, input supply or technology. There are few sub plans under the LSA programme named, a) Alternative crop plan, b) Wage Assistance Plan, Copping plan, Gender action Plan etc. Prior to decide payment of financial assistance need to carry out a social assessment to identified the magnitude of the

	Screening question	Yes	No	Significance of the effect	Remarks
					impacts.
29(ii)	Are there any vulnerable households affected?	√		High	Women-headed farm families engage in cultivation, during the construction period they will be impacted.
29(iii)	Will people permanently or temporarily lose access to facilities, services, or natural resources?		√		No such will be envisage.
f.	**Impacts on community resources, public services, cultural/historical sites, etc**				
30	Are there any areas on or around the location which are densely populated or built-up, which could be affected by the project?		√		Not applicable. The village settlement is more than 1 km away from the tank
31	Are there any areas or features of historic or cultural importance on or around the location which could be affected by the project?		√		No impact to the historical and cultural locations.
32	Are there any areas on or around the location which are occupied by sensitive land uses e.g. hospitals, schools, places of worship, community facilities, which could be affected by the project	√		Low	A temple is around 100 meters away from the tank bund. Precautions will be made during the tank renovation to avoid interfering with religious ceremonies. Devotees' entrance to the temple would not be hampered.
33	Are there any areas on or around the location which are already	√		low	The immediate area below the tank band was polluted by polythene, empty glass bottles, metallic beer cans, plastic, etc. This scenario may evolve because of project

	Screening question	Yes	No	Significance of the effect	Remarks
	subject to pollution or environmental damage e.g. where existing legal environmental standards are exceeded, which could be affected by the project?				activities and must be managed appropriately.
34	Will the project cause the removal of trees in the locality?		√		There is no removal of trees identified.
35	Are there existing land uses or socio-economic activities on or around the location which could be affected by the project?	√		High	As mentioned, the Yala season has to be forgone for the proposed rehabilitation work and farmers will be affected as they are not getting water for their agricultural lands.
35(i)	Are there bathing spots that will be unusable during the construction period?		√		Not applicable. No bathing spot available
35(ii)	Is there subsistence fishing taking that will get disturbed due to canal rehabilitation		√		Fishing is taking place in the tank. Villagers are not permitted to fish. As a result, livelihood losses are not anticipated for individuals. The farmer association organizes a tender, and the highest bidder receives fishing. Lowering the water level is beneficial for fishing. As a consequence, they will not suffer income losses
35(iii)	Are there any home gardening and other industrial, agricultural activities that will get disturbed due to construction activity	√		High	Since construction activities have to skip one Yala season, water will not be issued for agricultural lands, therefore agricultural activities will be impacted during Yala season

	Screening question	Yes	No	Significance of the effect	Remarks
35(iv)	Are there drinking water supply sources located in the project are that may be rendered unusable during construction period?		√		Not applicable. No drinking water source is identified within the project area.
35(v)	Are there tourism activities taking place in the project area that will get disturbed by construction activity?		√		No tourism activities in the project area.
g.	**Construction related impacts (labor influx, community health and safety, etc)**				
36	Will there be any risks and vulnerabilities to public safety due to physical hazards during construction of the Project?	√		Low	Some heavy machinery will be utilized within the project area, putting public safety at risk. It is, however, not severe. It can be mitigated by implementing safety procedures
37	Are there local village roads that will become unsafe due to contractor's usage	√		Low	Material haulage along transportation routes increases traffic and inconveniences the public. It can be minimized by putting in place safety practices.
38	Are there any transport routes on or around the location which are susceptible to congestion or which cause social and environmental problems, which could be affected due to construction work?	√		Low	B269 Road is the area's primary and direct access road. Residents from the neighbourhood, where a loosely scattered population remains, use the road. Further, the government hospital, religious places, and other public offices are beside the access road. Hence, necessary safety measures must be taken to prevent potential mishaps or accidents while transporting materials, as well as environmental issues like dust emissions.
39	Will the project require significant	√		Moderate	The tank rehabilitation requires skilled and unskilled workforces to complete the

	Screening question	Yes	No	Significance of the effect	Remarks
	number of workers (skilled and unskilled)				task on time to avoid livelihood disturbances.
39(i)	Will the project attract significant number of migrant workers to the area?	√		Moderate	The contractor uses his labour force when special skill is required. Therefore, an increased number of migrant workers will be deployed to attend the skilled work. At the same time contractors are encouraged to hire local labour forces to minimize the influx of migrant workers.
40	Will construction activity lead to burrowing of earth, gravel and sand? And/or quarrying for rock?	√		high	According to representatives of the irrigation department, gravel would be taken from the tank's HFL region and clay would be taken from the tank's bed. A licensed site located about 75 km away must supply the needed rocks for the construction of rip rap. These activities will cause environmental and social-related concerns on a considerable scale that need to be managed carefully
41	Will the project increase the risk of introduction of alien invasive species to the locality	√		high	The area is already heavily infested with IAS, to reduce further infestation, when transporting raw material precaution should be taken to minimize the spread.
Operational Impacts					
42	Will the project lead to stagnant water and drainage problems causing increased mosquito breeding	√		Low	If the projected borrow sites for gravel and mettle quarries in the outside region of the tank and borrow places for the earth in the tank's catchment are not restored in line with the standards, they may act as mosquito breeding grounds
43	Will the project involve removal and disposal of aquatic invasive species?		√		No, as there is hardly any IAS in the tank.
44	Will the project involve regular maintenance dredging of the canal network		√		Excavation will take place for the proposed construction works. Dredging on the canal network shall not be taken place under the proposed project activities.

	Screening question	Yes	No	Significance of the effect	Remarks
45	Will the scheme after rehabilitation serve a larger command area?		√		No, the water will be supplied for more land extent under its present command

Table 0-1 Environmental Management Plan

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
Design and Planning stage					
01	**Delays in mobilization and timely implementation of work program & poor coordination, and extended duration for project completion**	• Scheduling, coordination, procurement, obtaining approvals, and project implementation should be expedited to the practicable extent. • Standard and good construction practices shall be followed at all times. • The possibility of simultaneous deployment of several gangs needs to be pursued, which will allow the work to be completed within the shortest possible duration. • Finalize construction programs duly considering provisions for the work schedule The following plans have to be developed during the planning/design stage: ○ Construction Work Plan (with the approval of the IA) ○ Environmental Management Action Plan (based on this ESMP) ○ Material Procurement Plans ○ Transportation Plan for material, equipment, and waste and Traffic Management Plan for each road segment (for haulage routes) ○ Health & Safety Plan ○ Construction Waste Management Plan ○ Other plans, such as drainage management and erosion control (if any)	Included in the design cost	Contractor: One-off activities before starting construction	IA and reported to the PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		On social perspective since one Yala Cultivation season to be forgone negative impacts were identified on the farming. Fishing is taking place in the tank. Villagers are not permitted to fish. As a result, livelihood losses are not anticipated for individuals. • farmers can continue their occupation as per the bidding All the construction activities related to the irrigation system are decided to be carried out during Yala season to start of the Maha (Early April to September). • If you could not complete the task on an agreed time schedule due to unavoidable reasons or uncertainties, there may be possibilities to have negative impacts to the downstream community for the next year Yala season as tank cannot store water during Maha season. Therefore, the following action have to be taken; • Make it mandatory for the contractor to adhere to the construction schedule but prevail upon him to complete the rip rap and upstream sluices within the shortest possible time without compromising on quality • Ensure the mobilization of contractor prior to start the construction activities • Once done, start filling the tank so that water will be available for the next Yala season cultivation • Release water periodically during the construction period to minimize water going waste, ensure replenishment of wells and reduce impacts on environment (thereby also reducing impact on domestic water)			

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Ensure the material transportation, fulfill the machinery and labor requirement prior to start the works. • Monitor to ascertain whether programs are moving towards correct directions or running effectively as planned and achieving the desired objectives. • Discuss and arrange garbage collection points with required number of bins to encourage people to dispose them properly. project implementation unit and the Department of irrigation should plan this properly and allocate necessary funds for it. Disposal method should be discussed with the respective local authorities.			
		• A monitoring committee needs to be established soon after mobilization of the contractor. The said Committee consists of representatives from each of the Implementing Agencies, SSO and PMU. This forum is used for individual agencies to present their constraints and issues if any, review the current progress, take collective decisions on remedial measures and take appropriate actions immediately. Function of the Monitoring Committee • Obtaining the progress report periodically. • Reviewing the progress of construction activities at the committee meetings. • Holding discussions on the constraints which could be caused to delays and take collective decisions on the remedial measures. • If unable to complete the task due schedule time and can't avoid the delays postponed to next year.			

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		(To complete the task is contractor responsibility and the additional cost borne to the contractor			
		Community awareness • The people in the scheme need to be aware of the critical condition of the dam and the period of the construction activities carried out, difficulties that they have to face during the period of rehabilitation work. If unable to achieve the target under any circumstance due time period, inform the community about the negative impacts of their livelihoods and find solutions to mitigate impacts (such as advancing the previous cultivation season and delay the commencing next cultivation season and encourage to cultivate short period varieties).			
02	**Water level drawdown and forgoing of one Yala season**	Livelihood Assistant Plan should be implemented for the rehabilitation of the tank. The Livelihood Support Facilitators (LSF) recruited from the area would guide the community to draw up the plans with inputs from the institutions, and assist the relevant officers in monitoring and supervision of plan implementation with the help of the Farmer Organization (FO) leaders. The PMU would devise the monitoring system and take a lead role in respect of monitoring the entire process of LSA plan implementation.			

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		LSA plan in the end would consist of the following sub-plans: • Coping Assistance Plan (CAP) • Alternative Crop Plan (ACP) • Wage Assistance Plan (WAP) • Gender Action Plan (GAP)			
03	**Poor environmental planning by the Contractor**	• Designate a person to look after environmental and social (E&S officer) matters who will be responsible for coordination with the IA for implementing the EMP and EMoP, including any monitoring actions, etc. • The same person can be designated as the Environmental, Health, and Safety (EHS) Officer, to be appointed towards the end of the planning stage, before the implementation of any project activity. He will select locations and facilities for labour camps in consultation with the PHI of the area. EHS officer will thoroughly review compliance with regulatory requirements, and a summary requirement will be prepared (one for workers and another common one for the public, including the workers). • Coordinate with the IA/PMU on confirmatory surveys to be conducted during the design phase and complete as required with external experts (only if needed) • Proper planning of activities is needed considering climatic conditions and local weather patterns: e.g., - Rainfall and its run-off in the project area may cause disruption to construction works.	Included in the project cost	Contractor: One-off during mobilization and continuously throughout the contract period	IA and reported to the PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		- Furthermore, climatic conditions play an important role during the dispersion of noise and air pollutants. Seasonal climatic conditions shall be considered for the scheduling of construction activities. - Pipe upstream is placed at a level enabling full cross-sectional area of pipe is used for flowing - water. Adequate Pipe slope to be provided to avoid siltation inside the pipe. - The plan dimensions of silt traps to be such that a mamoty or a shovel could be easily inserted to remove silt. Elevation height (depth) of silt trap should be provided to retain silt until removed without overflowing depending on the duration of maintenance period. - Spacing of catch pits to be adequate to clean the path of water flow with provided cleaning rods. - With the use of historical rainfall data, a hydrological analysis should be based in deciding the sizes of storm water drainage canals.			
04	**Incorporation of Environmental Design Recommendations**	Run-off from the project will produce a highly variable discharge regarding volume and quality and, in most instances, will have no discernible environmental impacts. However, the following mitigation measures are needed to minimize any impacts: • Culverts and canal designs shall be considered to allow overland flow and sheet flow from paved areas and cross drainage without any blocking.	Design Cost	Contractor's Engineer, in collaboration with the IA/PMU	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Drainage paths need to be identified and demarcated on the sites and excavated site areas. For silt traps, designs shall be considered for the trapping of silt in a proper manner, with facilities for easy removal of silt, if any. • For catch pits, appropriate designs shall be considered in order to drain out rainwater without blocking or flooding. • Designed drainage facilities must be made capable of disposing of the run-off generated in a given water catchment without inundating the surrounding land for a selected rainfall event. • To minimize erosion and wash off of sediments from spoil heaps, a waste management plan has to be prepared for the disposal of spoil, excavated/dredged material and construction debris; Waste shall be disposed of in existing approved sites; new sites shall be developed considering siting guidelines, maintained and operated accordingly • Efforts shall be taken to minimize the overall material required for the project by adopting various approaches – balanced cut and fill, re-use as much excavated material from this project as possible			
05	**Climate Change Consideration and Vulnerability Screening**	• Climate change vulnerability checks are needed in compliance with the requirements of the Department of Irrigation and adopting proper mitigation measures as may be required. e.g., extreme weather scenarios such as high rainfall intensities and flooding • Efforts shall be made to plant additional trees to increase the carbon sink. The trees may be selected with the help of the Forest Department, and space for additional planting (if the remaining space within ROW is not adequate) will be secured with the help of the Forest Department, Divisional Secretary (DS) and Community-based Organizations (CBOs).	Included in the project cost	Contractor: One-off during mobilization and continuously throughout the contract period	IA and reported to the PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		This will partially compensate for the increased carbon emissions released to the atmosphere during the lifecycle of the project components, including those during the construction phase.			
06	**Delays related to the selection of locations for project interventions** **e.g., Labour camps, stockpile areas, storage, and disposal areas**	• The priority of locating labour camps is near subproject locations. • Sites to be considered will result in the least damage to property and vegetation and the least disturbance to the neighbourhood, including traffic movements. • Residential areas are not the best locations to set up worker camps, given the possibility of social conflicts. • Extreme care should be taken to avoid negative impacts on low-lying areas. • All locations should be included in design specifications and plan drawings. • Storage areas shall be secured to minimize the risk of trespassing and theft. They shall also be safe from access by children, animals, etc. • The Contractor shall submit a method statement and plans for the storage of hazardous materials (fuels, oils, and chemicals) and emergency/contingency procedures.	Included in the project cost	Contractor: One-off before starting construction	IA/PMU
Pre-Construction/Site preparation phase					

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
01	**Site Access Restrictions**	• All public access to the Site needs to be prohibited or controlled via (especially the canal bund road) adequate fencing and signage in order to avoid risk to the public. • The site entrance should include adequate signage indicating the details of the proposed sub-project, implementing agencies etc., as well as safety signage to keep the public away. • Where possible, a fence shall be erected to cover the working area, where possible, using cost-effective fencing materials consisting of chain link fence fabric, concrete posts, etc., in order to ensure animals and the public are unable to freely access the Site. • The Contractor shall not enter or occupy for any purpose with workers, tools, equipment, construction materials, or materials excavated from project activities within the boundaries of any private property outside the designated site boundaries without written permission from the owner and/or tenant of the property.	Engineering Cost	IA the Site in collaboration with the IA/PMU	IA/PMU
02	**Material Sourcing**	• The Contractor is required to ensure that all construction materials are sourced from the identified sites, which are from the high-ground areas in the tank bed. Any change to these sites and the identification of new sites will require prior safeguard approval via the Engineer. These sites will be developed and restored as per the guidance provided in this ESMP. • Quarry material and sand shall be purchased from licensed operators. If the Contractor intends to operate his own quarry site, he will be required to obtain all licenses, approvals, and consents and provide the details to the IA for confirmation.	Engineering Cost	Contractor through EO	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• The Contractor is required to maintain the necessary licenses and environmental clearances for all borrow material, sand and quarry materials they are using—including soil, fine aggregate, and coarse aggregate. • Sourcing of any material from protected areas and/or designated natural areas, including tank beds apart from what has been identified and approved, is strictly prohibited. • Contractor-operated borrow/quarry sites shall be developed and remediated per the guidance provided in this ESMP. Site Remediation/Rehabilitation plans shall be provided as and when it is directed by the IA. • The Contractor is required to submit in writing all the relevant copies, numbers, and relevant details of all pre-requisite licenses, etc. and report on their status to the Engineer on a quarterly basis.			
03	**Construction of Coffer Dams**	• When necessary, the Contractor should draft a method statement for coffer damming for the relevant construction locations, and if one is not already provided by the project proponent with plans, the Engineer will have to approve it before construction can begin. • The method statement should include the method of damming, material requirements and sourcing, access to and from the coffer dam to the bund area, contingency plans for unforeseen rainfalls, and removal of the coffer dam.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
04	**Worksite management**	• The Contractor should identify an area on-site (or close to the project area) to store/stock construction materials and equipment, which will be approved by the Engineer and demarcated for material storage as per the site plan. Appropriate safeguards and protection measures are required, such as covering and fencing of material storage areas. Fencing to keep wild animals away should also be considered. • Parking, repairing, and storing vehicles, machinery, and equipment shall be done only at designated areas of the work site and/or in any other designated areas by the Engineer. • The Contractor shall provide instruction and advice to drivers and operators (both company-owned and hired) to park vehicles and store equipment in these designated areas.	Engineering Cost	Contractor through EO	IA/PMU
05	**Labour Camps**	• The location, layout, and basic facility provision of labour camps, site offices, and resting facilities to be set up and will be submitted to the Engineer prior to establishment. • Fencing to keep wild animals away should be considered. • The establishment of labour camps will commence only upon the written approval of the Engineer. Resting and sanitary facilities will be provided separately for both male and female labourers. • The Contractor has to maintain necessary living accommodations and ancillary facilities in a functional and hygienic manner as approved by the Engineer. • All temporary accommodations will be established and maintained in such a fashion that safe water supply is available for drinking, cooking, and washing.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• The wastewater collection and disposal system for the camp, if not available, will be planned and implemented with concurrence from the Local Public Health Officer (PHI). Collection and disposal of sewage should not pollute water sources. Any on-site collection and disposal facility should conform to provisions of SLS745. • An EPL should be obtained from the CEA if the number of occupants in the camp exceeds 20.			
06(a)	**Recruitment of labour**	• No workers under the age of 18 should be hired for this contract. The contractors must comply with the labour laws of GOSL and should make sure that there is no child labour and forced labour. The Contractor should give equal pay for equal work regardless of gender, ethnicity or caste. No discrimination in job opportunities and inductions has been given based on gender. • Recruitment of labourers, both unskilled and skilled, from the locality, will reduce the need for having large labour camps and will lead to lesser impacts due to such labour camps during the construction stage			
06(b)	**Labour Training and Awareness**	• Labour awareness programs to educate the labourers about gender-based violence (GBV), general conduct, the Environmental and Social Management Plan, Occupational Health and Safety etc., should be conducted throughout the contract period as agreed in the contract, as stipulated. • Ensure all site personnel have a basic level of environmental awareness training. • Heavy vehicles and construction and other operating equipment (such as excavators, loaders, pneumatic and hydraulic machinery and	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		equipment, electrical appliances and equipment, etc.) shall be adequately trained on any potential hazards associated with their task. • No operator shall be permitted to operate major mechanical equipment without having adequate prior experience and/or having been trained appropriately by the Contractor. • All employees must undergo safety training.			
07	**Tree Removal**	• There are no trees to be removed identified at this stage, if there are any removal of tree to be done during the pre-construction stage as per the Engineers requirement, the Contractor should adhere to the guidelines and recommendations made by the safeguards staff of the project and the CEA/Divisional Secretariat, if any, with regard to the felling of trees and removal of vegetation. • Prior to clearing, all trees and green cover vegetation removed must be identified and marked. • Clearing operations must be strictly controlled to ensure minimal clearance in both the construction area and the material extraction sites in the catchment. • Protection of existing trees should be considered as much as possible. Avoid the removal of trees as much as possible. • The removal of trees from temporarily used lands should be avoided to the extent possible. • Removal of trees should be done with minimum disturbances to soil cover and without damage to adjoining trees	Engineering Cost	Contractor	DWC/FD

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Trees removed need to be compensated on a minimum of a 1:3 basis at a suitable location on-site or in the tank catchment. Preferred number is 1:5.			
08	**Information Disclosure among Stakeholders**	• Discuss about the grievances with the residents in the project affected area. For the process, residents will be briefed immediately once the Contractor is mobilized for the project, its purpose, design, and outcomes via a documented community consultation session. • The Contractor shall take note of all impacts, especially nuisances, pollution scenarios and safety hazards that will be of concern to the residents, and take the necessary measures as stipulated in the ESMP to mitigate them. • The Contractor is required to establish a grievance redress mechanism for all stakeholders and will need to maintain a log of any grievances or complaints and the actions taken to resolve them. • A copy of the ESMP shall always be available at the project supervision office on Site.	Engineering Cost	Contractor/IA/ IA/PMU	IA/PMU
Construction/Intervention Phase					
01	**Site clearance and land development**	• Water spraying should be done at regular intervals to avoid dust generation due to site clearance. • Avoid stockpiling any excess spoils at the site for long periods. Such material should be disposed of at approved/designated areas without delay	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• If disposal is required, the Site shall be selected from barren lands, no/least vegetated areas; sites should be away from residential areas, water bodies, and any other sensitive land uses • Spoil/wastes should be properly segregated during collection and dumped in the designated disposal site; Prohibit burning of vegetative matter, construction and other waste (including that of labour camps); Ensure that wastes are not haphazardly thrown in and around the project site; provide proper collection areas/bins/craters, etc., and create awareness of proper waste con.			
02	**Disposal of debris and spoil**	• All debris and residual spoil material, including any left earth, shall be disposed of only at locations approved by the engineer/LAs. The debris and spoil shall be disposed of in such a manner that waterways and drainage paths are not blocked. The disposed of material should not be prone to be washed away by run-off, and it should not be a nuisance to the public. • The debris and residual spoil material, including any left earth, shall be used to refill the borrow areas as directed by the Engineer and subjected to laying of topsoil as per recommendations for conservation and re-use of topsoil in an environmentally acceptable manner. • All spoil, topsoil, demolition waste (if any), and cut vegetation should be covered by secure tarpaulins whenever transported offsite to prevent material from being blown away by trucks.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
03	**Conservation and re-use of topsoil**	• The topsoil of productive areas where it must be removed for the purpose of this project shall be stripped to a specified depth of 50 mm and stored in stockpiles at a height not exceeding 2 m, according to the direction from the Engineer in writing. • Removed topsoil could be used as productive soil when replanting or establishing vegetation • Stockpiled topsoil must be returned to cover the areas where the topsoil has been removed due to project activities. Residual topsoil must be distributed on adjoining/proximate barren areas as identified by the Engineer in thin layers as appropriate.	Engineering Cost	Contractor	IA/PMU
04	**Transport and storage of construction materials**	• The capacity of the trucks shall not be exceeded when transporting material to construction sites. • The Contractor shall minimize the possibility of public nuisance due to traffic congestion during the transportation of materials. • If local roads are used, routes are to be selected based on the axle loads; loads should be safe to prevent damage to local roads, culverts and bridges. • All vehicles used for haulage should be in good condition, and speed limits as per nationality stipulated for haulage must be maintained. • If there is damage to local roads and other utilities due to hauling in roads caused by the Contractor, the Contractor shall be responsible for repairing all damaged infrastructure/roads, if needed, through relevant authorities. Air quality impacts: material haulage, vehicle and equipment use:	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Vehicles traveling to and from the construction site must adhere to speed limits to avoid producing excessive air-borne dust. • Use tarpaulin sheets to cover loose material (soil, sand, aggregate) when transported by trucks • Wheels and undercarriage of haul trucks should be cleaned sufficiently before leaving the construction site/quarry; Control dust generation while unloading the loose material (particularly aggregate, soil) at the Site by sprinkling water, if needed. • Stabilize surface soils where loaders, support equipment, and vehicles are operated, by using water and maintain surface soils in a stabilized condition • Access and other cleared surfaces, including backfilled trenches, must be dampened whenever possible and especially in dry and windy conditions to avoid excessive dust. • Ensure that all the construction equipment and machinery are fitted with emission control devices which are operating correctly; ensure that only those vehicles and equipment in good condition and are in good maintenance are used for project construction. Vehicles and machinery are to be kept in good working order and to meet the manufacturer's specifications for safety, fuel consumption, etc. • Vehicles/equipment should have a valid Vehicle Emission Certificate (VEC) showcasing emissions below the specified limits; Maintain VEC records of all vehicles at all times for ready inspection at the work sites			

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
05	**Emission of dust during cover application and construction.**	• Storage of construction materials (sand, soil, metal, etc.) in covered areas with plastic sheeting (of about 6 mm minimum thickness) in order to minimize the levels of airborne dust. • Mud patches caused by material transport vehicles on the access road should be cleaned immediately. • To suppress dust, the Contractor should sprinkle water on exposed soil and stockpiled material on the Site sufficiently frequently, depending on the weather • Water sprinkling should be done more frequently on days that are dry and windy (at least two times a day), as the levels of dust can be elevated during dry periods. • Control access to the work area and prevent unnecessary movement of vehicles, workers, and public trespassing into work areas; limiting soil disturbance will minimize dust generation	Engineering Cost	Contractor	IA/PMU
06	**Prevention of soil erosion during site preparation**	• Debris material must be disposed of away from waterways and drainage paths so that it does not clog them. • Silt traps should be constructed to avoid siltation into waterways where necessary. • To avoid siltation, drainage paths should not be directed to any waterway directly, and they need to be separated. • Embankment slopes, slopes of cuts, etc., shall not be unduly exposed to erosive forces. These exposed slopes shall be graded and covered with grass or other suitable material as per the specifications. • All fills, backfills, and slopes shall be compacted immediately to reach the specified degree of compaction and establish proper mulch.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Most of the impacts can be avoided if construction work can be carried out during the dry season. • Within the yards and site areas, exposed areas and areas of loose soil shall be turfed or planted with shrubs. Retention of the ground cover and vegetation (to the extent as possible) is the most natural and effective way of protecting soil from erosion by wind and rain; the feasibility of phasing site clearance in this way in order to reduce these impacts should be investigated when the construction work is planned in detail by the Contractor. • Newly-constructed and/or unstable slopes, loose rock and boulders shall be appropriately protected. Embankment surfaces shall be compacted and turfed. Proper drainage improvement works shall be done along with toe areas of embankments and slopes. • Movement of construction vehicles shall be restricted to access roads, haulage routes and yards to prevent damage to roads and pavements.			
07	**Borrowing of earth and management of self-operated borrow sites**	• Extraction and transportation of borrowed materials shall be done only with the approval of the Geological Survey and Mines Bureau. • The Contractor shall comply with the environmental requirements and guidelines issued by the GSMB, CEA, and the respective local authorities with respect to locating new borrow areas. • All borrow pits and areas have to be rehabilitated at the end of their use by the Contractor in accordance with the requirements and guidelines issued by the GSMB, CEA, and the respective local authorities and guidelines presented in the ESMP.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Noise and vibration control methods shall be strictly followed and shall comply with national regulations and IFC EHS Guidelines on Occupational Health and Safety.			
08	**Quarry operations and management of self-operated quarry sites**	• A site operational plan for opening and closing of quarry sites shall be prepared and submitted to the Engineer for clearance with a valid Environmental Protection License (EPL) and Industrial Mining License; • Prior approval needs to be obtained from GSMB, CEA, and LAs as Pradeshiya Sabha. • Selected quarry sites need to have proper safety measures such as warnings, safety nets, etc., and third-party insurance cover to protect external parties that may be affected by blasting. • Quarry sites should not be established within protected and sensitive areas. • Materials shall not be obtained from quarries that have ongoing or prone to disputes with the community. • The maintenance and rehabilitation of the access roads in the event of damage by the Contractor's operations shall be the responsibility of the Contractor. • Copies of all relevant licenses have to be maintained by the Contractor for review and documentation by the Engineer. • Noise and vibration control methods shall be strictly followed and shall comply with national environmental regulations and IFC EHS Guidelines on Occupational Health and Safety.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
09	**Impact on habitats and wild life**	• Material extraction activities should be conducted with the guidelines of and recommendations of CEA. • New transportation routes, storage yards and other facilities should be located without impact on the environment, sensitive sites, terrestrial habitats and water bodies. • Avoid contamination of water bodies and terrestrial habitats with construction waste • Construction trash, sediments, and runoff containing oil, fuel, or other hazardous elements should not be discharged into waterways. • New invasive species should not be introduced to the project area due to construction related activities. • Restoration of impacted habitats once construction and material extraction are completed up to their original status. • To minimize any influence on fauna and flora, vegetation clearing should be kept to a minimum. • Conservation of biodiversity with special attention to endemic and threatened species • For the working population, wildlife poaching is completely illegal. • Fencing of construction areas to protect animals without access to construction zones.	Engineering /Environmental cost	Contractor	IA/PMU
09	**Operation of machinery**	• Only personnel who have prior experience in operating machinery, equipment, and material processing plants should be employed for the project.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Ensure that all the construction equipment and machinery are fitted with emission control devices which are operating correctly; ensure that only those vehicles and equipment in good condition and are in good maintenance are used for project construction. Vehicles and machinery are to be kept in good working order and to meet the manufacturer's specifications for safety, fuel consumption, etc. • Vehicles/equipment should have a valid Vehicle Emission Certificate (VEC) showcasing emissions below the specified limits; Maintain VEC records of all vehicles at all times for ready inspection at the work sites			
10	**Noise from vehicles, machinery, equipment and construction activities.**	• No activities shall be carried out that generate excessive noise during the night hours (from 6:00 pm to 6:00 am) • High noise generating machinery will not be used for the construction activities. • All equipment and machinery should be operated at noise levels that do not exceed the maximum permissible noise levels at the boundaries of the land in which the sources of noise are located for construction activities are 75dB (A) L_{Aeq} during daytime and 50 dB (A) L_{Aeq} during night-time (Daytime: 6.00 am – 9.00 pm, night time: from 9.00 pm – 6.00 am). • All equipment should be in good working condition. Regular maintenance of all construction vehicles and machinery to meet noise control regulations stipulated by the CEA [Gazette Extraordinary, No 924/12 (1996)] • Idling of temporary trucks or other equipment should not be permitted during periods of loading or unloading or when they are not in active	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		use. This practice will be ensured, especially near residential and sensitive areas. • The effectiveness of exhaust silencers shall be checked during routine servicing operations and, if found defective, will be replaced. • To keep noise levels at a minimum, maintenance of vehicles, equipment, and machinery should be regular and up to the satisfaction of the Engineer. Health Impacts of Noise and Vibration: • If a worker is exposed to noise above a noise exposure limit, the Contractor must look for options for engineered noise control, such as using low-noise excavators, jackhammers, drills, and power generators. • Limit the duration of each worker depending on the Exposure Levels and Time Limits for corresponding exposure levels (follow IFC Occupational Safety Standards) • If it is not practicable to reduce noise levels to or below noise exposure limits, the Contractor must post warning signs in the noise hazard areas. Workers in a posted noise hazard area must wear hearing protection. • Use non-explosive blasting chemicals, silent rock cracking chemicals, and concrete breaking chemicals are preferred.			
11	**Pollution of soil and water due to fuel, lubricants and other hazardous waste**	• All construction vehicle parking areas, fuel/lubricant storage areas, vehicle, machinery, and equipment maintenance and refueling areas, and vehicle, machinery, and equipment refueling sites must be located away from the construction area. • Fuel and lubricant spills must not contaminate the ground or water.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• The Contractor should arrange for the collection, storing, and disposal of oily wastes at the pre-identified disposal sites for the approval of the Engineer. • All spills and collected petroleum products should be disposed of in accordance with standards set by the CEA. • Oil interceptors shall be provided at appropriate locations (e.g., vehicle service areas); Residual and hazardous wastes such as asphalt and bituminous waste (if any), solvents, oils, fuels, and lubricants shall be disposed of in approved disposal sites approved by the CEA • Hazardous material, including oil and grease to be collected in leak-proof, properly-labelled containers and stored appropriately. Proper signs should be displayed for hazardous waste) and should be handed over to authorized third parties who have CEA licenses • Concrete, slurry, paints, and chemicals such as bituminous products (if any), fuel, lubricants, paints, solvents, and other chemicals shall be stored at designated places, well-sheltered and impervious floors (preferably paved). The paving area of the storage yards will be provided with a gentle slope and shall be made so that any leaks/spills can be collected into a chamber for safe disposal. Such chemicals shall be well-managed, and efforts shall be made to minimize waste generation.			
12	**Loss of minor water sources and disruption to water users**	• The Contractor should make workers aware of how to minimize and conserve water during construction. • Arrange an adequate supply of water for the project's purpose throughout the construction period and, if necessary, obtain water	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		from ground or surface water bodies, with permission from the Engineer and relevant authority. • Apply best management practices to control contamination of run-off water during maintenance and operation of equipment. • The Contractor needs to protect sources of water used by the community so that continued use of these water sources will not be disrupted by the work. • If the Contractor's activities adversely affect the quantity or quality of water, the Contractor will serve notice to the relevant authorities and downstream users of water sufficiently in advance.			
13	**Preventing siltation into water bodies**	• The Contractor needs to take the necessary measures to prevent the siltation of water. • Construction materials containing small or fine particles should be stored in places without being washed away by run-off. • Temporary soil dumps should be placed at least 200–250 m away from water sources and covered with thick polythene sheets. • All fills, backfills, and slopes should be compacted immediately to reach the specified degree of compaction and establish proper mulch. • Avoid earthworks during rainy days and monsoon season to prevent soil run-off and schedule works during the dry season when the water levels are low • Avoid stockpiling of earth fill during the monsoon season unless covered by tarpaulins or plastic sheets; Install temporary silt traps or sedimentation basins along drainage leading to water bodies.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
14	**Preventing contamination of water from construction waste**	• To avoid construction-related effluent from immediately contaminating water sources or irrigation systems, the steps outlined in this ESMP must be followed. • The discharge standards, as stipulated in the National Environmental Act, must be strictly adhered to. • Place storage areas for chemicals, fuels & lubricants away from any drainage leading to water bodies; Store fuel, construction chemicals, etc., under shelter and on an impervious floor, also avoid spillage • Pump out the water collected in the pits/excavations to a temporary sedimentation basin and dispose of only clarified water into drainage channels/streams • Consider safety aspects related to trench/pit collapse due to the accumulation of water; dispose of any residuals at the identified disposal site, and stockpile construction material away from water bodies, floodplains and reservations • No spillage of oil, grease, chemicals, etc., into the wetlands and water bodies, floodplains and reservations; Ensure that no silt-laden run-off from nearby construction area enter the water bodies; • Do not clean or wash machinery and equipment near water bodies; prevent any waste/water from discharging to water bodies. • Inspect all vehicles daily for fluid leaks before leaving the vehicle staging area, and repair any leaks before the vehicle resumes operation • Excess water sprinkling on soil and material to control dust may also generate run-off, which may enter the water bodies; this should be avoided by controlled water sprinkling	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
15	**Impacts on drainage canals, natural drainage paths and activities that would cause (local) flooding**	• The Contractor's activities shall not lead to flooding conditions as a result of blocked drainage paths and drains or any other modifications to be built- and/or natural drainage canals/paths. • The Contractor may not permanently close or block existing canals and streams. If needed, obtain approval from the relevant agencies, such as ID/Divisional Secretary, prior to such action being taken. • The Contractor shall take all measures necessary and as directed by the IA to keep all drainage paths and drains clear of blockage at all times. Contractors must return the Site to its original condition once the need for such a diversion, closure, or blockage has passed. • If flooding or stagnation of water is caused by the Contractor's activities, contractors shall provide suitable means to (a) prevent loss of access to any land or property and (b) prevent damage to land and property. • After completing the canal rehabilitation sections, the canal sections should be cleared of all debris, waste, etc., prior to the water issue so that no d/s pollution occurs. • Works associated with the gated structures, such as sandblasting and painting, should be done outside the canal and installed at the completed gate to avoid any water pollution due to hazardous waste material. • The Contractor shall not select land within flood-prone areas to dispose of excavated and spoil material, locations for material stockpiles, yards and other locations where other construction materials are stored	Engineering Cost	Contractor	IA/PMU
16	**Public Safety**	• The Site should always have entrance restrictions for the general public. Restrict public access to all areas where construction works are ongoing	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		through the use of barricading and security personnel. • Ensure that all material, equipment, workers and all activities are conducted within the demarcated/barricaded strip of land along the road; there should be no spillage of any activity outside this zone • In all relevant areas, safety sign boards and signboards that forbid entry and warn of risks should be visible. • To cover any losses or harm to members of the public or construction workers during the project, the Contractor will secure third-party insurance. • Under supervision, only personnel with training and experience shall drive any construction trucks. The safety of pedestrians shall be made a priority while hauling material. • Control dust pollution to ensure public safety during material hauling – implement dust control measures as suggested under air quality • Plan transportation routes to avoid heavily populated areas; Schedule deliveries to avoid congested areas during morning and evening peak traffic periods; Astute coordination to combine deliveries where possible to avoid under-utilization of vehicles and reduce the number of journeys • Source materials in close proximity (within Northern Province) and other local outlets wherever possible to reduce the length of delivery journeys			
17	**Safety of workers** **Occupational health & safety**	• To the extent that is applicable to this contract, the Contractor should adhere to the requirements for the workers' safety as outlined in ILO Convention No. 62, the Safety & Health Regulations of the Factory	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		Ordinance of Sri Lanka and IFC EHS Guidelines on Occupational Health and Safety. • Provide compulsory H&S orientation training to all new workers to ensure that they are apprised of the H&S Plan, including rules of work, PPE, preventing injury to fellow workers, etc.; Conduct regular toolbox safety briefings; tendencies, causes, risks & safe procedures • The Contractor should provide all necessary safety equipment, such as first aid kits and fire extinguishers, for the work site. • The site office should have signage in the local tongues with instructions on first aid management, emergency contact information, and emergency operational protocols. • Prior to the start of the construction activities, all labourers should get fundamental on-site safety instruction during the ESMP course. • A briefing on the dangers of working on a dam rehabilitation site should be included in the training provided to labourers. • Workers who are subjected to loud noises and those engaged in crushing, compaction or concrete mixing processes shall be given earplugs. • The Contractor is responsible for providing PPE; safety gear, including masks, earplugs, safety belts, helmets, and safety goggles. • Provide supplies of potable drinking water; Provide clean eating areas where workers are not exposed to hazardous or noxious substances. • Ensure the visibility of workers through their use of high-visibility vests when working in or walking through heavy equipment operating areas • Ensure moving equipment is outfitted with audible backup alarms			

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high-voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to and easily understood by workers, visitors, and the general public as appropriate. • Disallow worker exposure to high noise for more than 8 hours/day without hearing protection. The use of hearing protection shall be enforced actively. • Employ workers with adequate experience, training, and know-how. These workers shall be led by an experienced supervisor or Engineer who will provide the leadership in daily activities. • General regard for the social and ecological well-being of the Site and adjacent areas is expected of the site staff. Workers need to be made aware of the following general rules: (i) no alcohol/drugs on-site; (ii) prevent excessive noise; (iii) construction staff are to make use of the facilities provided for them, as opposed to ad-hoc alternatives (e.g., fires for cooking, the use of surrounding bushes as a toilet facility); (iv) no fires permitted on-site except if needed for the construction works; (v) trespassing on private/commercial properties adjoining the Site is forbidden; (vi) other than pre-approved security staff, no workers shall be permitted to live on the construction site; and (vii) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. • The Contractor must monitor the performance of construction workers to ensure that the points relayed during their induction have been			

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		properly understood and are being followed. If necessary, a translator shall be called to the Site to explain further aspects of environmental or social behavior that are unclear. • The rules that are explained in the worker conduct section must be followed at all times.			
18	**Prevention of accidents**	• Prevention of accidents involving the public or vehicles or accidents during construction periods will be done via adequate training and guidance to all workers. • The site office should always have a first aid kit on hand, along with a sufficient supply of sterile dressing materials and first aid equipment. • The availability of suitable transport to take injured or sick people to the nearest hospital should also be ensured. • A notice board with names and phone numbers for emergency services such as ambulance services, hospitals, police, and the fire brigade should be prepared. • Workers should be provided with personal protective equipment, (safety boots) to be worn to protect from Snake bites, insect bites, Also proper lighting should be provided for work during night time and it is recommend to minimize night work as much as possible. • To avoid attracting wild elephants to the camp sites, garbage management should be done properly. • Worker sites should be covered with temporary electric fence to protect the elephant.	Engineering Cost	Contractor	IA/PMU
19	**Operation of**	• Avoid/minimize the requirement to establish camps by hiring and employing local workers as far as possible; the presence of workers	Engineering	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
	labour camps	throughout the day and night during the construction work will disturb the environment, Worker camps should be operated adhering the General health guidelines or any special conditional guidelines stipulated by the government during the implementation period. • If necessary, the Contractor to identify a barren, vacant land (preferably private unused land) to establish the camp nearby; ensure that such camp is at least 500 m away from habitation, water bodies, scrublands, etc., and well away from forest reserves • A sufficient quantity of potable water should be provided in each workplace/labour camp site at suitable and easily accessible locations, and such provisions will be maintained on a regular basis. • The sewage system for the offsite labour camp, if newly established, should be designed, built, and operated in such a fashion that no health hazards occur and no pollution to the air, groundwater, or adjacent water courses takes place. • All urinals and toilets should have an adequate water supply. • A contractor should provide garbage bins in the camps and ensure that these are regularly emptied and disposed of in a hygienic manner. • Separate the workers' living areas and, material storage areas, work sites clearly with fencing (electric fencing is needed to keep the wild animals away) • Ensure conditions of livability at work camps are maintained at the high standards possible at all times; living quarters and construction camps shall be provided with standard materials with proper ventilation) and facilities constructed with materials like GI sheets, timber planks, etc.	Cost		

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• The camp shall be provided with proper drainage. There shall not be any water accumulation. • In any case, if it is decided to set up a labour camp or construction vehicle and equipment parking area adjacent to the tank (under approval of the Engineer), a sentinel person should be stationed there to monitor any animal or elephant presence in or around the camp.			
20	**Handling of environmental and social issues during construction**	• The Contractor shall prepare a detailed Environmental Method Statement (EMS) clearly stating the approach, actions, and way the ESMP is implemented. The contractor staff should align to the code of conduct guide lines provided in the Bidding document. • The Contractor should appoint a suitably qualified person to look after environmental and social (E&S) aspects of the project following the award of the contract. This person will be the primary point of contact for assistance with all environmental issues during the pre-construction and construction phases. This E&S officer will be responsible for ensuring the implementation of ESMP. Should the construction staff be approached by members of the public or other stakeholders, the staff shall assist them in locating the E&S officer or Contractor or provide a number by which they may contact the environment management specialist or Contractor. • The Contractor should assign the E&S officer the responsibility to liaise with the public and to handle public complaints regarding environmental or socially related matters. • The conduct of the construction staff when dealing with the public or other stakeholders shall be in a manner that is polite and courteous at	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		all times. Failure to adhere to this requirement may result in the removal of staff from the Site by the E&S officer. • A complaints register shall be kept at the site office. This shall be in carbon copy format, with numbered pages. Any missing pages must be accounted for by the Contractor. This summary of the register shall be included in the monthly report to be submitted by the Contractor to IA. Interested and affected parties need to be made aware of the existence of the complaints book and the methods of communication available to them. • The Contractor must address queries and complaints by (i) documenting details of such communications, (ii) submitting these for inclusion in the complaints register, (iii) bringing issues to IA's attention immediately, and (iv) taking remedial action as per IA's instruction. • The Contractor shall immediately take the necessary remedial action on any complaint/grievance received by him and forward the details of the grievance, along with the action taken, to the environment management specialist within 48 hours of receipt of such complaint/grievance.			
21	**Management of chance find of Archaeological Property**	• All fossils, coins, articles of the value of antiquity, structures, other remains or things of geological or archaeological interest, etc., discovered on the Site and/or during construction work shall be the property of the GoSL and shall be dealt with as per provisions of the Antiquities Ordinance of 1940 (Revised in 1956 & 1998) • The Contractor shall take reasonable precaution to prevent his workmen or any other person from removing and damaging any such article or thing and shall, immediately upon discovery thereof and	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		before removal, acquaint the Engineer with such discovery and carry out the Engineer's instructions for dealing with the same, awaiting which all work shall be stopped within 100m in all directions from the Site of discovery. • If directed by the Engineers, the Contractor should obtain advice and assistance from the Department of Archaeology of Sri Lanka on conservation measures to be taken with regard to the artefacts prior to the recommencement of work in the area.			
22	**Chance finds of important Flora/Fauna**	• All work shall be carried out in such a manner that the destruction or disruption to the fauna and their habitats is kept to a minimum. • The Contractor must immediately notify the IA/PMU if any rare, threatened, or endangered flora or fauna species are discovered. • All activities that threaten such flora and fauna and/or their habitat must be halted immediately. Such activities shall be started only after obtaining the Engineer's approval. The Contractor shall carry out all activities and plans directed by the Engineer in order to conserve such flora and/or their habitat. • Construction workers should be instructed to protect fauna, including birds and aquatic life, as well as their habitats.	Engineering Cost	Contractor	IA/PMU
23	**Site closure and demobilization**	• Prior to completing site demobilization, the Contractor should clear the project site of any extra supplies, tools, and vehicles. • If coffer dams were built, they must be totally removed, together with any accompanying debris, from the Site. • There should be a complete dismantling and removal of all temporary site offices.	Engineering Cost	Contractor	IA/PMU

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
		• According to the Engineer's assessment, if the parking areas, material store/stock areas, machinery and equipment yards, labour camps have deteriorated in any manner, the Contractor should restore it to its pre-demobilization state. • Turfing, planting of trees, and stabilization of the surface areas should be done together with any drainage structures and erosion control measures.			
24	**Prevention of issues (e.g., GBV) related to labour influx**	• Avoid or reduce labour influx where possible • Contractors to implement robust measures to prevent sexual harassment and gender-based violence (GBV) • Make the workforce aware of unacceptable conduct. • Include a Worker Code of Conduct as part of the employment contract and introduce sanctions for non-compliance (e.g., termination).	Engineering Cost	Contractor	IA/PMU
Post Construction/Operation and Maintenance Phase					
01	**Greening and maintenance of earthen embankment**	• Only native species of plants may be used for the planting process. • Attempts will be made to identify suitable "living filter" plant species that are known to minimize the amount of nutrients and sediments flowing into the aquatic environment. • A supply of water will be available for the routine maintenance of the vegetation until it establishes naturally. • Routine maintenance of planted species will be conducted to identify issues with their establishment on Site. • Replacement planting will be conducted as appropriate.	Operational Cost	Facility Operator	IA, CEA

No	Activities and/or Associated Impact	Protection and preventive measures	Mitigation cost	Responsibility	
				Implementation	Monitoring
02	**Income generation for beneficiaries during construction periods**	• Providing labour and other services for construction units can be allocated to local communities after providing the required training to ensure enough income for local communities. During training, women would be given priority.	Operational Cost	Contractor	IA, PMU
03	**Provide adequate support for social organizations in the community**	• It is advised that some beneficiary services be provided to community organizations through cooperative social responsibility budgets in order to preserve the goodwill of the community	Operational Cost	Contractor	IA, PMU

Integrated Watershed and Water Resources Management Project (IWWRMP)

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

February, 2025

Content

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 reactions 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.

4.13 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, tore 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 any thing 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 colour)
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. Life saving equipment for working in water.
8. Re-chargeable torches / lighting equipment.

Integrated Watershed and Water Resources Management Project (IWWRMP)

Standard Procedure for Assessing the Requirement of Tree Removals

February, 2025

Standard Procedure for Assessing the Requirement of Tree Removals

1. Planning Stage

1.1 Consultancy teams should be appraised by the PMU to pay attention and document the requirement of tree removals at each site.

1.2 Consultancy team should discuss with officials of relevant implementing agency on proposed tree removals to identify exact requirement and alternatives explored.

1.3 Ground verification on tree removals should be done by team of IA and PMU. Officials from implementing agency and representatives from community organizations shall also participate and records with attendance list be taken. All trees identified for removal should be measured for their Diameter at Breast Height (DBH).

1.4 Special attention shall be given if any of the selected trees are considered rare, endemic, religiously, historically or culturally important, or are in roosting/ nesting sites etc. The removal of these trees should be avoided and alternatives sought. Unavoidable removals shall be supported with sufficient justification.

1.5 Proposed unavoidable tree removal identified and confirmed at ground verification should be declared and requirement explained to the public at community consultative meetings. The removal should be comprehensive justified with scientific/ engineering support. Sufficient time for community public feedback shall be provided. All suggestions provided shall be given due consideration.

1.6 If public raise key concerns/questions/ protests/ alternatives, the proposed list of tree removal shall be revisited with the relevant implement agency.

1.7 Include finalized tree list in to draft ESMP (scientific justification need for each tree which has identified to be removed). All mitigations and compensatory tree planting activities shall be presented explicitly in the ESMP.

1.8 Submit draft ESMP to PMU with all required information and photos on proposed tree removals.

2. Reviewing Stage

2.1 ESMPs shall be reviewed by PMU and further discussion with consultancy team will be conducted if necessary.

2.2 Field visit will be conducted by the PMU further verify of the requirement of proposed tree removals with officials of relevant implementing agency and representatives of community organizations.

2.3 The proposed tree removal list in the ESMP will be revisited post field visit and any necessary amendments will be made if necessary in concurrence with the implementing agency.

2.4 The final stage shall be to obtain the recommendations of DSRP (SPELL OUT) on tree removals and further amend list according to the recommendations of DSRP

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

3.1 The finalized tree removal list shall be shared with relevant approving officers/ agencies like Grama Niladhari, Divisional Secretariat, District Secretariat, Forest Department, State Timber Corporation, Central Environment Authority/ Provincial Environmental Authority etc. The obtaining of the clearances, where required, will be the responsibility of the implementing agency will be done prior to any removal of trees.

3.2 All clearances shall be shared with the PMU and endorsed before the tree removal activities are commenced. If any conflicts arise, the PMU will bring it to the notice of the World Bank E&S team immediately.

4. Awareness program (Implementation Agency / PMU)

4.1 Awareness programs for selected contractors shall be conducted on environmental and social impact mitigation measures with special attention on tree protection/removal guidelines.

4.2 Contractors shall be strictly adviced 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 al 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. – Archelogy Department, IA- Implementing Agency, PMU – Project management Unit. (Use "√" mark in relevant box)

……
Signature / Date
Environment Specialist (IWWRMP)

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

……..
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)

February, 2025

Abbreviations

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

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 form IA and site engineer.	Contactor	-
			Fence or protective measure should be placed around the work site.	Contactor	-
		Control public access to work site	All public access to the work site should be prohibited or controlled to avoid risk to the public.	Contactor	Monthly
			Signboards should be displayed at all entry points which indicating “Authorized entries only” or “prohibited to public entrance”.	Contactor	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.	Contactor	Weekly
			A register shall be maintained at the security point to register all labors/ officers/vehicles which enter / departure to/from the work site.	Contactor	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.	Contactor	Monthly
			Safety signs should be displayed at the entrance and other necessary places at the work site.	Contactor	Monthly
			Contractor should established a notice boards at the work site and necessary information should be displayed in time to time.	Contactor	Monthly
			Contractor should establish a notice board on COVID 19 health guideline at the entrance.	Contactor	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	-

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			Necessary documents (guidelines, ESMP, copy of approvals etc.) should be placed at the site office.	Contactor	Monthly
			First aid box with essential drugs should be placed at the site office.	Contactor	weekly
			Fire protection equipment should be placed at the site office.	Contactor	Monthly
			Contractor should maintain an extra stock of safety equipment at site office to issue when necessary.	Contactor	Monthly
			Hazards, explosives or any harmful chemicals should not stock in the site office.	Contactor	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 pilled 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 contactor shall take action to strictly follow the COVID 19 operational guideline declared by the Ministry of Health at work site.	Contractor	Once a week

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			Workshops, Stores, should establish according to the approved site plan.	Contactor	-
			Equipment (including power tools) should store properly, listed and assigned a person to issuing and receiving.	Contractor	Weekly
3	Establishment of Pollution Control measures	Control of Dust and emission,	Stock pilled materials should be covered with appropriate cover or sprinkling water to control dust emission.	Contractor / Site engineer	Daily
			Dust emission form earth works (when operating) should controlled by sprinkling water.	Contractor / Site engineer	Daily
			Contractor should take action to transport excavated debris to approved dumping sites and should not store at work site.	Contractor / Site engineer	Daily
		Control of noise and vibration	Contractor shall adhere to strictly follow given condition for noise limits and vibration limits. (far 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 pilled materials, temporary blocks of streams etc. form the work site and follow up the approved site restoration actions.	Contractor / Site engineer/PMU	-
4C	Labor management measures	Adhere to laws and regulations	No labor under the age of 18 will be hired for work under this contract.	Contractor	Daily
			Contractor shall strictly follow relevant national labor laws and acts related to terms and conditions of employment (i.e. related to salary payments, working hours, leave etc.) and issue employment letters/contracts to workers with details of the employment terms/conditions.	Contractor	-
			Contractor shall obtain necessary approval when increased the number of workers in labor camps	Contractor	-

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			Contractor shall maintain a log of any grievances/complains 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	
			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 translated it in to local languages upon clearance from the Engineer. The code of conduct must be made available to all staff and displayed in the work site in local languages. All workers will required to sign the Code of Conduct.	Contactor	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

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			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
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

No	Major field	Sub field	Mitigation and management measures	Responsibility	Monitoring frequency
			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 Public Health Officer (PHI).	Contractor/ Site engineer	-
			Proper solid waste management system (waste collection method/ separation method and final disposal method) should be established at labor camps.	Contractor	Weekly
			Waste water (from kitchen, 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 form the work site. Temporary toilet pits should treat and demolish accordance to approved health guidelines. Approved site restoration actions should implement.	Contractor/IA/ PMU	-

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 consent[1] 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.

[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.

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.

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: _____

Section - 7

Form of Bid

FORM OF BID

Name of Contract: **Rehabilitation of Mallavi Tank**

Contract No.: **LK-MoMDE-433771-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*	*[insert amount]*

		breaches]	
...	...	*[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)**
[insert year]	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 calling of performance security: *[indicate main reason(s) e.g. for GBV/ SEA breaches]*		*[insert amount]*

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: ……..……

Section – 8

Bill of Quantities

Schedules

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

Preamble to the Bill of Quantities

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 bid 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.

Descriptions of Items and Measurement Methods

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

A.1 Insurances and Securities

Sub Item A.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 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

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.

A.2 Engineer's Facilities

Sub Item A.2.1 Provisional Sum for constructing maintaining, dismantling and removal on completion of the Works, temporary building for Engineer's office in conformity with the plans provided for Engineer's requirements, including necessary furniture and fittings, furnishing, electricity, water and sanitary facilities etc. minimum floor area - 22.00m2

The sub item provides for the provision for Construction of Engineer's site office, sanitary facilities, installation and supplying of electricity & water facilities of Project Manager's offices for the duration of the Contract as a Provisional sum item. The Engineer shall order the supply of items or the work items to be carried out under this provisional sum item. All

items procured or established under this sub item shall remain the property of the Employer and shall be handed over to the Employer at the end of the Contract.

Payment Structure:

60% of the Provisional Sum: This portion will be certified and paid upon the successful establishment of all planned facilities. This means that once the facilities are set up as per the submitted plans and are ready for use, half of the agreed amount for this item will be paid.

30% for Maintenance: This portion is intended for the ongoing upkeep and maintenance of the facilities from the time they are established until the completion of the work. Maintenance costs should be included in the interim payment certificates.

10% for Removal and Site Clean-up: The remaining amount will be paid once all facilities have been removed and the site has been cleaned up upon completion of the project.

Sub Item A.2.2 Allow lump sum for providing and maintenance, rental, consumption charges etc. for telephone and facsimile facilities, electrical computer with internet facilities, photocopy & printing facilities, for the Engineer's site office for their use in connection with the Works as directed.

The sub items provide for providing and maintenance, rental, consumption charges etc. for telephone and facsimile facilities, electrical computer with internet facilities, photocopy & printing facilities, for the Engineer's site office for their use in connection with the Works as directed.

Payments for the item will be certified based on the actual invoice given by the contractor and will be paid on the completion of work and accepted by the Engineer.

Sub Item A.2.3 Allow lump sum for Hiring of Double cab with fuel and driver

The sub items provide for the Hiring of Double cab with fuel and driver for inspection work and attend meeting in other district (Engine Capacity 2500cc, 4WD, mileage less than 300,000km, should be Brand New or register after 01-01-2015) running shall be 06 days per week and 12 hours per day. Air conditioner with rear A/C vent minimum seating including driver shall be five (Wet Lease basis with driver). The maximum allowable mileage under this provision is 30,000 km.

Payments for the item will be certified based on the submission of running chart certified by the respective staff and approved by the Engineer. Payment will be received against actual physical progress. When physical progress reached 100%, quoted price totally released.

On the absence of such provision, Engineer shall declare the actual progress against to the vehicle provision.

A.3 Contractors Requirements

Sub Item A.3.1 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.

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 A.3.2 Allow lump sum 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.

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

A.4 Setting Out

Sub Item A.4.1 Allow lump sum for setting out of works in accordance with drawings and other written information given by the Engineer.

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.

A.5 Quality, Standards and Progress

Sub Item A.5.1 Allow lump sum Providing of 3 progress reports

The sub item is provided as lump sum basis for Provision of 3 Nos 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 A.5.2 Provisional sum for all cost in connection with testing of Materials, Goods etc

This sub-item covers the cost of any additional testing of materials and goods etc which are not coming and the quality control system and specification and requested by the Engineer.

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

Sub Item A.5.3 Allow Provisional sum for carryout borehole investigation to determine soil stratigraphy, shear test & permeability test and any other tests directed by Engineer

The sub item is provided as a provisional sum item for borehole investigation to determine soil stratigraphy, shear test & permeability test and any other tests.

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

Sub Item A.5.4 Allow Provisional Sum for Supplying and Installation of Dam Safety instrumentation such as Piezometer as directed by engineer

The sub item is provided on a Provisional sum basis for the payment for Installing Dam Safety instrument such as Piezometer as direct by Engineer.

Payments will be certified on submission of the required documentation, accepted by the Engineer

Sub Item A.5.5 Allow lump sum for providing of 3 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.

A.6 Health and Safety

Sub Item A.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 and the payment will be received against actual progress.

A.7 Services and Facilities

Sub Item A.7.1 Allow lump sum for supplying temporary electricity for the works

The sub item is provided on a lump sum basis for supplying temporary electricity for the works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.

Payments will be made on the completion of work on acceptance of the engineer.

A.8 Miscellaneous

Sub Item A.8.1 Allow lump sum for Fabricating, installing and maintaining a project name board,

The sub item is provided for 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.

Payments will be certified upon the successful erection of the Notice Board approved by the engineer.

Sub Item A.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: CONSTRUCTION OF MALLAVI TANK BUND (0+000 to 1+030)

Sub Item B.1 - Shrup and thorny, secondary growth jungle clearing

The sub item provides for Shrup and thorny, scoundary growth jungle clearing along the tank bund and reservations wherever necessary including uprooting and removing outside and burning to ashes as directed

The measurement for payment shall be the actual area of Secondary growth jungle clearing measured from the construction drawings approved by the Engineer.

Sub Item B.2 - Stripping top soil

The sub item provides for Stripping top soil along the upstream slope, downstream slope and top of the bund to a thickness of 0.075 meters in order to receive new earth and spoils to be disposed outside the reservation as directed

The measurement for payment shall be the actual volume of striped soil measured and calculated from construction drawing approved by the Engineer.

Sub Item B.3- Borrowing earth from identified borrow areas

The sub item provides for Borrowing earth from identified borrow areas including transport, benching, placing in layers average thickness not more than 225mm as earth filling in existing bund embankment and picking roots, watering as directed, compacting by vibrating sheep foot roller (degree of Compaction 98 % - 100%) and conducting any specified or directed material testing.

The rate also includes stripping and removing topsoil from the borrow areas and reinstating it as directed by the Engineer. Additionally, the rate encompasses all associated charges, levies, license fees, and other costs related to borrowing and transporting the fill material.

The measurement for part payment will be based on the volume of earth fill, measured from the levels established by pre-construction surveys and construction drawings. and measurement for payment for the final bill shall be the actual volume of compacted earth measured from construction drawing approved by the Engineer.

Sub Item B.4 Furnishing, transporting, placing and spreading of gravel on the bund

The sub item provides for Furnishing, placing, spreading, watering and compaction. (degree of Compaction 98 % - 100%) of 0.15 m thick gravel on Bund Top including preparation of surfaces to receive new fill. The rate also includes cost for identifying suitable borrow areas, removal of overburden, extraction of well graded gravel, transport to site, reinstatement of borrow areas.

The measurement for payment shall be the volume of compacted gravel placed in position measured from the construction drawings approved by the Engineer.

Sub Item B.5 Excavation for trench at the U/S bund toe

The sub item provides Excavation for trench at the U/S bund toe and Spoil to waste/reused by machinery for riprap cutoff wall including dewatering as directed.

The measurement for payment shall be the volume of excavated soil measured from the levels established by the pre-construction surveys and construction drawings.

Sub Item B.6 - Borrowing Clay material from identified borrow areas including transporting, placing in layers, Watering and Compaction by manual.

The sub item provides for clay excavation for puddle core wall in the breaching section as directed by the Engineer and spoils to be disposed outside the reservation as directed

The measurement for payment shall be the volume of Puddle core wall construct in position from the construction drawings.

Sub Item B.7 - Furnishing and placing 0.15m thick gravel bedding

The sub item provides for Furnishing, placing and densified by wetting 0.15m thick gravel bedding for placement of Rip rap as directed.

The measurement for payment shall be the volume of densified gravel in position measured from the construction drawings approved by the Engineer.

Sub Item B.8 Supplying and heaping 300 - 450 mm rubble for Rip-Rap

The sub item provides for supplying and heaping of 300 – 450 mm rubble for Rip-Rap.

The measurement for part payment shall be the 50% of tipper load for heaped rubble and the measurement for final payment shall be calculated by Qty certified under Item B.9

Sub Item B.9 Placing Rip-Rap

The sub item provides Placing Rip-Rap from the dumped rubble of a minimum average thickness of 450 mm on U/S slope of bund as Directed by Engineer. Rip-rap has to be placed manually in position, in compact, dense and uniform layer on the upstream slope of the dam. Rate also includes cost of obtaining rubble from approved sources, transport, loading, unloading and internal transport

The measurement for payment shall be the volume of rip-rap placed in position up to a thickness of 450 mm from the construction drawings approved by the Engineer.

Sub Item B.10 - Supplying turf sods

The sub item provides for Supplying turf sods to site, preparation and dressing of surface, firmly placing and full turfing to new fill and watering and kept moist till grass root up as directed by the Engineer.

The measurement for payment shall be the actual area of grass root up measured approved by the Engineer

Sub Item B.11 Casting and placing chainage post

The sub item provides for Casting and placing chainage post (with 1:11/2:3 (20mm) r/f ct.concrete with 2 nos 10mm dia tor steel and 3nos 6mm dia stirrups for reinforcement) along the tank bund at 100 m interval and fixing firmly in ground on 1:3:6(40) concrete base (600x600x400mm) rate including for loading, unloading and local transport and white washing and marking identification Chainage with yellow and black enamel paint and as directed by engineer.

The measurement for payment shall be the actual no of chainage post fixed approved by the Engineer

Sub Item B.12 Casting and hand over to office monuments with 1:2:4 (20mm) ct.concrete with 2 nos 10mm dia reinforcement and 3 nos 10 mm dia stirrups for reinforcement marked as ID to demarcate the reservation of medium irrigation tank .

The measurement for payment shall be the actual Number of approved by the Engineer

Sub Item B.13 Casting and placing level block

The sub item provides for Casting and placing level block (with 1:11/2:3 (20mm) r/f ct. concrete along the tank bund at 100 m interval and fixing firmly in ground on 1:3:6(40) concrete base (500x500x200mm) rate including for loading, unloading and local transport and marking identification level with yellow and black enamel paint and as directed by engineer.

The measurement for payment shall be the actual no of level blocks fixed approved by the Engineer

Sub Item B.14 - Supplying and laying Polyfelt Geosynthetics

The sub item provides for Supplying and laying Polyfelt Geosynthetics 2.5mm thick sheet upstream wherever necessary.

The measurement for payment shall be the actual area of Polyfelt Geosynthetics laid, measured from construction drawing approved by the Engineer.

Bill No C: CONSTRUCTION OF SPILL TAIL CANAL BUND (120 M LONG W-4.5M)

Sub Item C.1 - Stripping top soil

The sub item provides for Stripping top soil along the upstream slope, downstream slope and top of the bund to a thickness of 0.075 meters in order to receive new earth and spoils to be disposed outside the reservation as directed

The measurement for payment shall be the actual volume of striped soil measured and calculated from construction drawing approved by the Engineer.

Sub Item C.2- Borrowing earth from identified borrow areas

The sub item provides for Borrowing earth from identified borrow areas including transport, benching, placing in layers average thickness not more than 225mm as earth filling in existing bund embankment and picking roots, watering as directed, compacting by vibrating sheep foot roller (degree of Compaction 98 % - 100%) and conducting any specified or directed material testing.

The rate also includes stripping and removing topsoil from the borrow areas and reinstating it as directed by the Engineer. Additionally, the rate encompasses all associated charges, levies, license fees, and other costs related to borrowing and transporting the fill material.

The measurement for part payment will be based on the volume of earth fill, measured from the levels established by pre-construction surveys and construction drawings. and measurement for payment for the final bill shall be the actual volume of compacted earth measured from construction drawing approved by the Engineer.

Sub Item C.3 Furnishing, transporting, placing and spreading of gravel on the bund

The sub item provides for Furnishing, placing, spreading, watering and compaction. (degree of Compaction 98 % - 100%) of 0.15 m thick gravel on Bund Top including preparation of surfaces to receive new fill. The rate also includes cost for identifying suitable borrow areas, removal of overburden, extraction of well graded gravel, transport to site, reinstatement of borrow areas.

The measurement for payment shall be the volume of compacted gravel placed in position measured from the construction drawings approved by the Engineer.

Sub Item C.4 - Supplying turf sods

The sub item provides for Supplying turf sods to site, preparation and dressing of surface, firmly placing and full turfing to new fill and watering and kept moist till grass root up as directed by the Engineer.

The measurement for payment shall be the actual area of grass root up measured approved by the Engineer

Bill No D: IMPROVEMENTS TO SPILL.

Sub Item D.1 -Provision for cofferdam with using fertilizer bag and sand as directed by Engineer.

Payments will be made on the completion of work on acceptance of the engineer.

Sub Item D.2 - Dewatering at construction area whenever necessary using water pump (75 mm) as directed by Engineer.

The sub item provides for Dewatering at the breaching section by deploying 75mm dia pumps. (02 nos. of stand by pumps are required to ensure uninterrupted continuous pumping)

The measurement for payment shall be the actual running hours approved by the Engineer

Sub Item D.3 -Earth deduction along spill tail canal and level / heap

The sub item provides for earth deduction along the spill tail canal as directed by Engineer and spoils to be disposed outside the reservation as directed.

The measurement for payment shall be the actual volume of deducted soil measured from the level approved by the Engineer.

Sub Item D.4 -Prepare (The substrate must be clean and free of dust and loose particles and be sure to pre-wet the concrete substrate thoroughly to saturate the pores completely with water) and apply bonding slurry onto the substrate consisting of 1 part Bonding material (Stir well before use by means of a low speed drill with appropriate paddle) and 1.5 part of cement in a thickness not exceeding approximately 2mm as directed.

The measurement for payment shall be the actual Area of measured from the construction drawings approved by the Engineer.

Sub Item D.5 -16mm thick cement and sand 1:3 plastering

The measurement for payment shall be the actual Area of plastering measured from the construction drawings approved by the Engineer.

Sub Item D.6 -Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction

The sub item provides for Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction

The measurement for payment shall be the volume of excavated earth measured from the construction drawings approved by the Engineer

Sub Item D.7 -1:3:6(40mm) ct. concrete using concrete mixer and compacting with porker viberator including curing with form work.

The sub item provides for Supplying & laying 1:3:6(40) Ct. sand concrete compacting with porker vibrator including curing with form work (mixing by mixture) Rate includes cost of dewatering of foundations, placing, compacting and curing of concrete including filling of over-excavations.

The measurement for payment shall be the volume of concrete measured from the construction drawings approved by the Engineer.

Sub Item D.8 -1:2:4(20mm) ct. concrete using concrete mixer and compacting with porker viberator including curing with form work.

The sub item provides for 1:2:4(20mm) concrete compacting with porker vibrator including curing with formwork (mixing by mixture). Rate includes cost of dewatering of foundations, placing, compacting and curing of concrete including filling of over-excavations.

The measurement for payment shall be the volume of concrete measured from the construction drawings approved by the Engineer.

Sub Item D.9 -Supplying and fixing of 12mm dia 450mm length dowels.

This sub item provides for supplying and fixing of 12mm dia 450mm length dowels as directed by Engineer.

The measurement for payment shall be the actual Number of dowels measured and approved by the Engineer.

Sub Item D.10 -Supplying and fixing high-quality PVC waterbar at all construction joints, expansion joints in the spill structure. PVC Waterbar shall be embedded centrally (for internal type) or placed at the concrete surface (for external type) as per the design and site condition.

Scope includes supplying and fixing high-quality 200mm Width PVC waterbar at all construction joints, expansion joints in the spill structure. PVC Waterbar shall be embedded centrally (for internal type) or placed at the concrete surface (for external type) as per the design and site condition.

The water bar shall be:

Non-toxic, flexible, and UV-resistant

Capable of withstanding hydrostatic pressure and movement

Conforming to relevant international standards for water-retaining structures

Rate includes:

Material cost (PVC waterbar), Site cutting, jointing, and Proper positioning and fixing during concreting, Labour and necessary tools for installation.

The measurement for payment shall be the actual Length of water bar measured from construction drawing approved by the Engineer.

Sub Item D.11 -Earth Excavation from borrow and back filling by manual Tpt by tractor including watering & compacting. (Earth cutting by machinery)

The sub item provide for earth fill in improvement access road, using from borrow areas, including benching of slopes where necessary to receive new fill, Borrowing earth from identified borrow areas including transport, benching, placing in layers average thickness not more than 225mm as earth filling in access road and picking roots, watering as directed, compacting by Machinery

The measurement for payment shall be the volume of compacted Earth placed in position measured from the construction drawings.

Sub Item D.12 -Providing of 50 x 100 weep holes as per type NP/IRR/WH/Type No 01

The measurement for payment shall be the actual Number of weep holes measured from construction drawing approved by the Engineer.

Sub Item D.13 -Earth excavation for gabions area and spoil to waste as directed

The sub item provides for Excavation of Foundation for Gabions area and spoil to waste as directed.

The measurement for payment shall be the volume of excavated earth measured from the construction drawings approved by the Engineer

Sub Item D.14 -Furnishing, Lacing & Placing of PVC Coated 3.0 x 1.0 x 1.0 m Gabions boxes

The measurement for payment shall be the number of gabion boxes placed and supplied

Sub Item D.15 -Furnishing, & Packing 225 x 150 mm random rubble in to Gabion boxes

The sub item provides for Furnishing, & Packing of Rubbles as per specification. The payment shall be on actual measurement taken from the construction drawings.

Sub Item D16 -Furnishing, & Laying Polyfelt Geosynthetics 2.5mmthk. sheet in existing gravel bed as directed by Engineer

The sub item provides for Supplying and laying Polyfelt Geosynthetics 2.5mm thick sheet upstream wherever necessary.

The measurement for payment shall be the actual area of Polyfelt Geosynthetics laid, measured from construction drawing approved by the Engineer.

Bill No E: Construction of Drop Structure.

Sub Item E.1 -Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction

The sub item provides for Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction

The measurement for payment shall be the volume of excavated earth measured from the construction drawings approved by the Engineer

Sub Item E.2 -Soft rock excavation

The measurement for payment shall be the volume of excavated Soft Rock measured from the construction drawings approved by the Engineer

Sub Item E.3 -Hard rock excavation

The measurement for payment shall be the volume of excavated Hard rock measured from the construction drawings approved by the Engineer

Sub Item E.4 -1:11/2:3(20mm) ct. concrete using concrete mixer and compacting with porker vibrator including curing with form work.

The sub item provides for 1:11/2:3(20mm) concrete compacting with porker vibrator including curing with formwork (mixing by mixture). Rate includes cost of dewatering of foundations, placing, compacting and curing of concrete.

The measurement for payment shall be the volume of concrete measured from the construction drawings approved by the Engineer.

Sub Item E.5 -Furnishing, cutting, bending & placing reinforcement as providing in drawing.

The sub item provides for Furnishing, cutting, bending & placing reinforcement as providing in drawing.

The measurement for payment shall be the weight of reinforcement measured from the construction drawing and calculated from bar schedule approved by the Engineer.

Sub Item E.6 -Supplying and fixing of 12mm dia 450mm length dowels.

The measurement for payment shall be the actual Number of mild steel dowels measured approved by the Engineer

Bill of Quantities

Item No	Description	Amount	
A	Preliminaries	Rs.	
B	Construction of Mallavi Tank Bund	Rs.	
C	Construction of Spill Tail Canal Bund	Rs.	
D	Improvements To Spill.	Rs.	
E	Construction of Drop Structure	Rs.	
F	**Total Civil Cost (A+B+C+D+E)**	**Rs.**	
G	Ddt. Provisional Sums	Rs.	**3,379,000.00**
H	**Sub Total 2 (F-G)**	**Rs.**	
I	Discount (If Any)	Rs.	
J	**Sub Total 3(H-I+G)**	**Rs.**	
K	Physical Contingencies [10% of (J)]	Rs.	
L	Price Contingencies [5% of (J)]	Rs.	
M	**Total Bid Price, Carried To Letter Of Bid (J+K+L)**	**Rs.**	
Total Bid Price (Amount in Words)			
N	VAT (18% of M)	Rs.	
P	**Total Estimate Cost (M+N)**	**Rs.**	
Q	Total for Day Works	Rs.	
R	**Bid Price with Day Works (M+Q) (Will be considered only for Evaluation Purpose)**	**Rs.**	

Total amount excluding VAT in words.....
……...
……...

Signature of Bidder :-……..

Bill of Quantities

	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, shifting 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, Spills & Extended the Training Bund & 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 for Irrigation and Land Drainage. (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

	Existing roads & culverts cannot take the passage of heavy vehicle or such in adequate areas to be strengthen by the successful bidder, before make use
	Any existing services, roads, culverts 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 :-
	This Bill of Quantities has been prepared generally in accordance with the principles of the Civil Engineering Standard Method of Measurement Sri Lanka (CESMM-SL: 1ST EDITION, JANUARY 2017)
	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) lab length & wastage of material inculding to reinforcement rate
	f) Testing of all materials.
	f) 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. To be maintained the Centre line of the bund during the construction period. It can't be changed time to time.c. Submission of all additional site surveys and investigations, preparation of field amendment drawings, shop drawings and As-Built drawings.d. Transport for surveyor including provision of survey instruments.e. Performing all sampling and testing which are required to be carried out by the Contractor, and supplying results of such tests.f. The degree of compaction should be minimum 98% and the compacted volume will be taken for measurement.
	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 as certain 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 installments over the contract period and balance 10% on dismantling and removal on completion	**C**
	Paid on Satisfactorily completion of the item	**D**
	In equal installments 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**

Bill of Quantities							
SI. No	**Description of Work**		**Unit**	**Qty**	**Rate (LKR)**	**Amount**	**Rate in Words**
Bill No A: Preliminaries							
A.1	**Insurances and Securities**	**Mode of Payment**	**Unit**	**Qty**	**Rate (LKR)**	**Amount**	**Rate in Words**
A.1.1	Provisional Sum for Providing a Performance Security and Advance Payment Security	A	Item	Allow	P.Sum	219,000.00	
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	Item	Allow	P.Sum	365,000.00	
A.2	**Engineer's Facilities**						
A.2.1	Provision sum for constructing maintaining, dismantling and removal on completion of the Works, temporary building for Engineer's office in conformity with the plans provided for Engineer's requirements, including necessary furniture and fittings, furnishing, electricity, water and sanitary facilities etc. minimum floor area - 22.00m^2	C	Item	Allow	P.Sum	1,000,000.00	
A.2.2	Allow lump sum for providing and maintenance, rental, consumption charges etc. for telephone and facsimile facilities,electrical computer with internet facilities, photocopy & printing facilities, for the Engineer's site office for their use in connection with the Works as directed.	G	Item	Allow	L.Sum		

A.2.3	Allow lump sum for Hiring of Double cab with fuel and driver for inspection work and attend meeting in other district (Engine Capacity 2500cc, 4WD, register after 01-01-2015) running shall be minimum 2500km per month, 06 days per week and 12 hours per day. Air conditioner with rear A/C vent minimum seating including driver shall be five (Wet Lease basis with driver). The maximum allowable mileage under this provision is 30,000 km.	H	Item	Allow	L.Sum		
A.3	**Contractors Requirements**						
A.3.1	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	Item	Allow	L.Sum		
A.3.2	Allow lump sum 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.	C	Item	Allow	L.Sum		
A.4	**Setting Out**						
A.4.1	Allow lump sum for setting out of works in accordance with drawings and other written information given by the Engineer.	F	Item	Allow	L.Sum		

A.5	**Quality, Standards and Progress**						
A.5.1	Allow Lump sum for providing of 3 Nos 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	Item	Allow	L.Sum		
A.5.2	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	Item	Allow	P.Sum	300,000.00	
A.5.3	Provisional sum for carryout borehole investigation to determine soil stratigraphy, shear test & permiability test and any other tests directed by Engineer	D	Item	Allow	P.Sum	500,000.00	
A.5.4	Provisional sum for supplying and Installation of Dam Saftey instrumentation such as Piezometer as directed by engineer	G	Item	Allow	P.Sum	145,000.00	
A.5.5	Allow lump sum for providing of 3 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	Item	Allow	L.Sum		
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	Item	Allow	L.Sum		
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	Item	Allow	L.Sum		
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	Item	Allow	L.Sum		
A.8.2	Employer's share for Adjudicator's fee	F	Item	Allow	P.Sum	500,000.00	
Total for Bill No A (Carried to Summary of Bills)							

Sl. No	**Description of Work**	**Unit**	**Qty**	**Rate (LKR)**	**Amount**	**Rate in Words**
B	**CONSTRUCTION OF MALLAVI TANK BUND (0+000 to 1+030)**					
B.1	Shrub and thorny jungle clearing along the Tank bund /Canal / Spill tail canal / road way and reservations including uprooting stumps removing outside and burning to ashes where ever necessary as directed.	Ha	1.960			
B.2	Stripping top soil along the upstream slope, downstream slope and top of the bund to a thickness of 0.075 m in order to receive new earth and spoils to be disposed outside the reservation as directed	m^3	1,590.00			

B.3	Borrowing earth from identified borrow areas including transport, benching, placing in layers average thickness not more than 225mm as earth filling in existing bund embankment and picking roots, watering as directed, compacting by Vibrating Compactor.by machinery.	m^3	14,309.00			
B.4	Furnishing, Transporting placing and spreading of Gravel on the bund including watering & compaction by Machinery.	m^3	816.00			
B.5	Excavation for trench at U/S bund toe and spoil to waste/reused by machinery for riprap cutoff wall as directed.	m^3	2,310.00			
B.6	Borrowing Clay material from identified borrow areas including transporting, placing in layers, Watering and Compaction by manual.	m^3	5,601.30			
B.7	Furnishing and placing 0.150 m thick gravel bedding for placement of Rip rap as directed.	m^3	1,499.00			
B.8	Supplying and heaping 300 - 450 mm rubble for rip rap.	m^3	4,454.00			
B.9	Placing Rip-Rap from the dumped rubble an average thickness of 450 mm on up stream slope of bund as directed by the Engineer.(Rate includes the necessary internal transport and loading).	m^3	4,454.00			
B.10	Supplying turf sods to site, preparation and dressing of surface, firmly placing and full turfing to new fill and watering and kept moist till grass root up as directed by the Engineer.	m^2	6,715.00			
B.11	Casting and placing chainage post (with 1:11/2:3 (20mm) r/f ct.concrete with 2 nos 10mm dia tor steel and 3nos 6mm dia stirrups for reinforcement) along the tank bund at 100 m interval and fixing firmly in ground on 1:3:6(40) concrete base (600x600x400mm) rate including for loading, unloading and local transport and white washing and marking identification Chainage with yellow and black enamel paint and as directed by engineer (DWG NO: IWWRMP/2025/MUL/MIK/THANNI/CHAIN,LEVEL/BLOCK/01	Nrs	11.00			

B.12	Casting and hand over to office monuments with 1:2:4 (20mm) ct.concrete with 2 nos 10mm dia reinforcement and 3 nos 10 mm dia stirrups for reinforcement marked as ID to demarcate the reservation of medium irrigation tank .	Nrs	97.00			
B.13	Casting and placing level block (with 1:11/2:3 (20mm) r/f ct.concrete along the tank bund at 100 m interval and fixing firmly in ground on 1:3:6(40) concrete base (500x500x200mm) rate including for loading,unloding and local transport and marking identification level with yellow and black enamel paint and as directed by engineer (DWG NO: IWWRMP/2025/MUL/MIK/THANNI/CHAIN,LEVEL/BLOCK/01	Nrs	5.00			
B.14	Furnishing, & Laying Polyfelt Geosynthetics 2.5mmthk. sheet in existing gravel bed as directed by Engineer	m^2	9,900.00			
B.15	Tyding up site	Item	Allow			
Total for Bill No B (Carried to Summary of Bills)						
SI. No	**Description of Work**	**Unit**	**Qty**	**Rate (LKR)**	**Amount**	**Rate in Words**
C	**CONSTRUCTION OF SPILL TAIL CANAL BUND (120 M LONG W-4.5M)**					
C.1	Stripping top soil along the upstream slope, downstream slope and top of the bund to a thickness of 0.075 m in order to receive new earth and spoils to be disposed outside the reservation as directed	m^3	81.60			
C.2	Borrowing earth from identified borrow areas including transport, benching, placing in layers average thickness not more than 225mm as earth filling in existing bund embankment and picking roots, watering as directed, compacting by Vibrating Compactor.by machinery.	m^3	632.60			
C.3	Furnishing, Transporting placing and spreading of Gravel on the road way including watering & compaction by Mechinery.	m^3	88.40			

C.4	Supplying turf sods to site, preparation and dressing of surface, firmly placing and full turfing to new fill and watering and kept moist till grass root up as directed by the Engineer.	m^2	234.00			
C.5	Tyding up site	Item	Allow			
Total for Bill No C (Carried to Summary of Bills)						
SI. No	**Description of Work**	**Unit**	**Qty**	**Rate (LKR)**	**Amount**	**Rate in Words**
D	**IMPROVEMENTS TO SPILL.**					
D.1	Provision for cofferdam with using fertilizer bag and sand as directed by Engineer.	Item	Allow	P.Sum	200,000.00	
D.2	Dewatering at construction area whenever necessary using water pump (75 mm) as directed by Engineer.	Item	Allow	P.Sum	150,000.00	
D.3	Earth deduction along spill tail canal and level / heap	m.hrs	15.00			
D.4	Prepare (The substrate must be clean and free of dust and loose particles and be sure to pre-wet the concrete substrate thoroughly to saturate the pores completely with water) and apply bonding slurry onto the substrate consisting of 1 part Bonding material (Stir well before use by means of a low speed drill with appropriate paddle) and 1.5 part of cement in a thickness not exceeding approximately 2mm as directed.	m2	160.30			
D.5	16mm thick cement and sand 1:3 plastering .	m2	160.30			
D.6	Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction	m^3	27.50			
D.7	1:3:6(40mm) ct. concrete using concrete mixer and compacting with porker viberator including curing with form work.	m^3	5.20			
D.8	1:2:4(20mm) ct. concrete using concrete mixer and compacting with porker viberator including curing with form work.	m^3	121.00			

D.9	Supplying and fixing of 12mm dia 450mm length dowels.	Nrs	437.00			
D.10	Supplying and fixing high-quality PVC waterbar at all construction joints, expansion joints in the spill structure. PVC Waterbar shall be embedded centrally (for internal type) or placed at the concrete surface (for external type) as per the design and site condition	Lm	10.00			
D.11	Earth Excavation from borrow and back filling by manual Tpt by tractor including watering & compacting. (Earth cutting by machinery)	m^3	35.00			
D.12	Providing of 50 x 100 weep holes as per type NP/IRR/WH/Type No 01	Nr	10.00			
D.13	Earth excavation for gabions area and spoil to waste as directed	m^3	69.00			
D.14	Furnishing, Lacing & Placing of PVC Coated 3.0 x 1.0 x 1.0 m Gabions boxes	Nr	23.00			
D.15	Furnishing, & Packing 225 x 150 mm random rubble in to Gabion boxes	m^3	69.00			
D.16	Furnishing, & Laying Polyfelt Geosynthetics 2.5mmthk. sheet in existing gravel bed as directed by Engineer	m^2	103.50			
D.17	Tyding up site after construction.	Item	Allow			
Total for Bill No D (Carried to Summary of Bills)						
SI. No	**Description of Work**	**Unit**	**Qty**	**Rate (LKR)**	**Amount**	**Rate in Words**
E	**Construction of Drop Structure**					
E.1	Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction	m^3	55.80			
E.2	Soft rock excavation	m^3	2.00			

E.3	Hard rock excavation	m^3	2.00			
E.4	1:11/2:3(20mm) ct. concrete using concrete mixer and compacting with porker viberator including curing with form work.	m^3	65.00			
E.5	Furnishing, cutting, bending & placing reinforcement as providing in drawing.	Kg	2,095.00			
E.6	Supplying and fixing of 12mm dia 450mm length dowels.	Nrs	200.00			
E.7	Tyding up site after construction.	Item	Allow			
Total for Bill No E (Carried to Summary of Bills)						

10.0 DAYWORKS SCHEDULE

	Description	Unit	Qty.	Rate (LKR)	Amount (LKR)	Amount in Words
	Labour					
1	Skilled labour	hr	50.00			
2	Unskilled labour	hr	60.00			
3	Mason	hr	20.00			
4	Carpenter	hr	10.00			
5	Plumber, Electrician	hr	15.00			
6	Mechanic	hr	15.00			
7	Welder, Fitter	hr	15.00			
8	Steel fixer	hr	15.00			
9	Driver	hr	50.00			
	Total for Labour					
	Material					
1	Cement (50 Kg bags)	Nos	100.00			
2	Sand	m^3	30.00			
3	Mild steel reinforcement	t	0.30			
4	Tor steel reinforcement	t	0.30			
5	Mild Steel Plate	t	0.15			
6	Stainless Steel Plate	t	0.15			
7	Fabricated Steelwork	t	0.15			
8	Timber Ply Sheet 12mm	m^2	30.00			
9	Gravel	m^3	50.00			
	Total for Material					
	Equipment					
1	Backhoe/Loader 100 HP	hr	20.00			
2	Mobile crane 30T	hr	10.00			
3	Dump truck / Tipper 20T	hr	10.00			
4	Tractor/Trailer 100HP	hr	10.00			
5	Concrete Mixer 1 m^3	hr	10.00			
6	Air Compressor 3-Tool	hr	5.00			
7	Welding Set 10KVA	hr	10.00			
8	Sandblasting Equipment	hr	15.00			
9	Diesel Generator 20KVA	hr	15.00			
10	Water Pumps 50mm	hr	25.00			
11	Excavator	hr	25.00			
	Total for Equipment					
Total for Bill No 08						

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**

Form PER – 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below. Fields with asterix (*) shall be used for evaluation.

Position*		
Personnel information	**Name**	**Date of birth**
	Professional qualifications	
Present employment	**Name of Employer**	
	Address of Employer	
	Telephone	**Contact (manager / personnel officer)**
	Fax	**E-mail**
	Job title	**Years with present Employer**

Summarize professional experience over the last five years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From*	To*	Company, project , position, and relevant technical and management experience*

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** ☐ **Owned** ☐ **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.

Method Statements

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

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.

Section 9 - Schedules

Schedule 1 – General Information

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

ITB Clause reference	Description	Information *(to be filled by the Bidder)*	Remarks
4.1 (a)	**Legal Status**		*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	*Provide original or certified copy of the power of attorney attested by a Notary and label as attachment to Clause 4.1 (a)*	
	VAT Registration Number		
	Name (Partner 3)		*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 4.1 (a)*	
	VAT Registration Number		
4.2 (a)	**ICTAD Registration**		*Provide certified copies and label as attachment to Clause 4.2(a)*
	Registration number		
	Grade		
	Specialty		
	Expiry Date		

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

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

(ii) For joint ventures, each joint venture partner shall furnish information separately.

Year	Turn-over	Remarks
1		*Attach audited reports and label as attachment to Clause 4.2*
2		
3		
4		
5		

Schedule 3 – Adequacy of Working Capital

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

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

Schedule 4 – Construction Experience in last five years

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

(ii) For joint ventures, each joint venture partner shall furnish information separately.

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

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

Schedule 5 – Major Items of Construction Equipment Proposed	
Type	**Capacity**

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

Schedule 7 – Time Schedule for Key Staff														
			Months (in the form of a Bar Chart)											
Name	**Position**	**Activities**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**Number of Months**

Full-time: _____ Part-time: ……

Schedule 8 – Work Programme

Sheet 1 of ……

[1st, 2nd, etc. are months from the Start Date.]

Construction Activity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th

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

Nonadjustable 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 Manger 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 4.13	*Protection of the Environment*
Sub-clause 4.15	*Contractor's Operations on the Site*
Sub-clause 4.16	*Fossils*
Sub-clause 4.19	*Avoidance of Interference*
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:

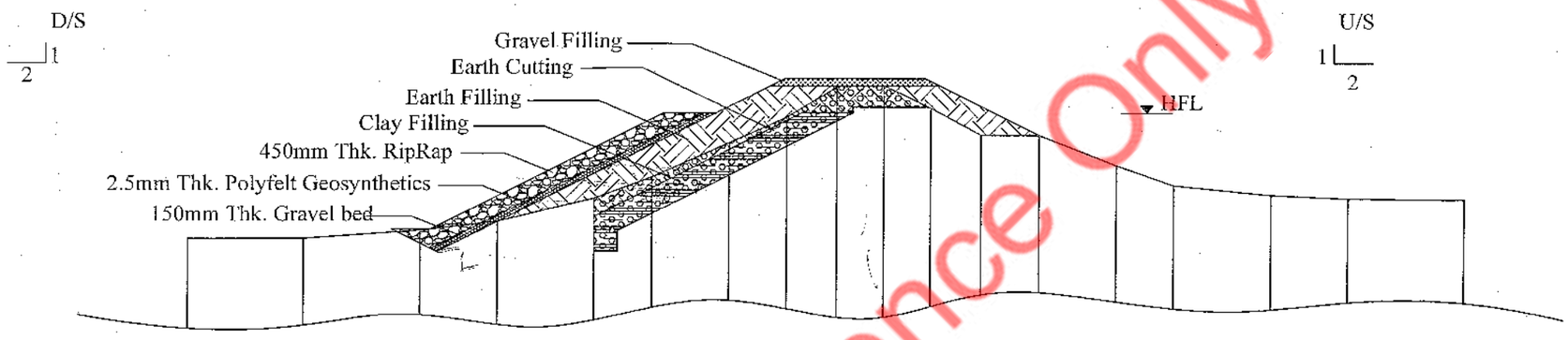
- received a copy of the code;
- had the code explained to them;
- acknowledged that adherence to this Code of Conduct is a condition of employment; and
- Understood that violations of the Code can result in serious consequences, up to and including dismissal, or referral to legal authorities.

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.

S.I NO	DESCRIPTION	DRAWING NO	NO OF SHEETS
1	Bund Typical Section	MUL/VVK/ IWWRMP/2024/MAL/BUND/TYP	
2	Bund Ls (-0+000 – 1+030)	MUL/VVK/ IWWRMP/2024/MAL/BUND/LSS-1	01 of 01
3	Bund Css (-0+000 – 0+005)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-1	01 of 23
4	Bund Css (-0+010 – 0+025)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-2	02 of 23
5	Bund Css (-0+050 – 0+075)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-3	03 of 23
6	Bund Css (-0+100 – 0+125)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-4	04 of 23
7	Bund Css (-0+150 – 0+175)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-5	05 of 23
8	Bund Css (-0+200 – 0+225)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-6	06 of 23
9	Bund Css (-0+250– 0+275)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-7	07 of 23
10	Bund CSS (0+290 - 0+300)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-8	08 of 23
11	Bund CSS (0+325 - 0+350)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-9	09 of 23
12	Bund CSS (0+375 - 0+400)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-10	10 of 23
13	Bund CSS (0+425 - 0+450)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-11	11 of 23
14	Bund CSS (0+475 - 0+500)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-12	12 of 23
15	Bund CSS (0+525 - 0+550)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-13	13 of 23
16	Bund CSS (0+575 - 0+600)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-14	14 of 23
17	Bund CSS (0+625 - 0+650)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-15	15 of 23
18	Bund CSS (0+675 - 0+700)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-16	16 of 23
19	Bund CSS (0+718 - 0+725)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-17	17 of 23
20	Bund CSS (0+750 - 0+775)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-18	18 of 23
21	Bund CSS (0+800 - 0+825)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-19	19 of 23
22	Bund CSS (0+850 - 0+875)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-20	20 of 23
23	Bund CSS (0+900 - 0+925)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-21	21 of 23
24	Bund CSS (0+950 - 0+975)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-22	22 of 23
25	Bund CSS (1+000 - 1+030)	MUL/VVK/ IWWRMP/2024/MAL/BUND/CSS-23	23 of 23
26	Construction of Drop Structure	MUL/VVK/ IWWRMP/2024/MAL/BUND/DROP	



TYPICAL CROSS SECTION

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Arca :

R.R.A :-Rip Rap Filling Area :

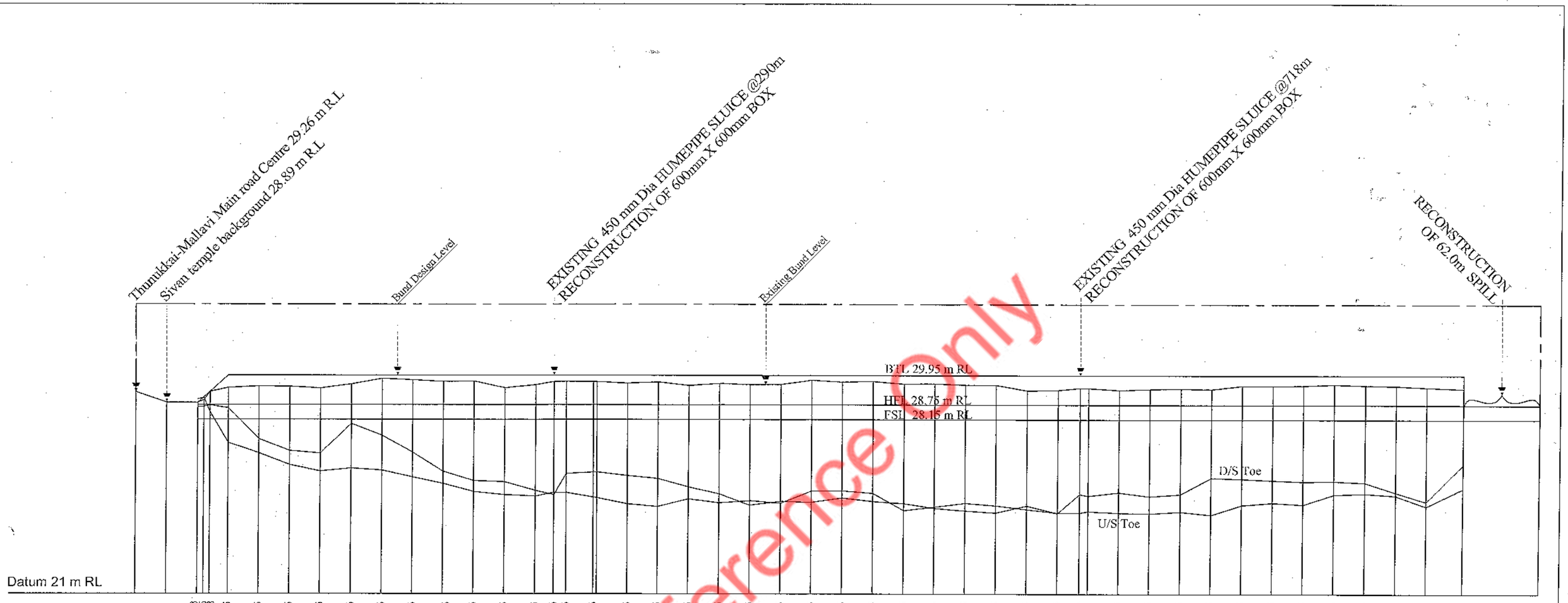
Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT	**Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024**			
MULLAITIVU RANGE VAVUNIKULAM DIVISION IWWRMP – 2024	**Structure :- Improvements to Tank Band in Mallavikkulam** **Location :-** Typical section		IE's OFFICE: LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O
	DATE :-	SHEET NO :- DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/Typ	DRF's OFFICE: DRAWN CHECKED K.Vithusan, D'man.	DESIGN CHECKED , I.E
				SUBMITTED Eng.I.Sunoj, I.E Vavunikulam Divi APPROVED Eng.S.Vinothan, D.D



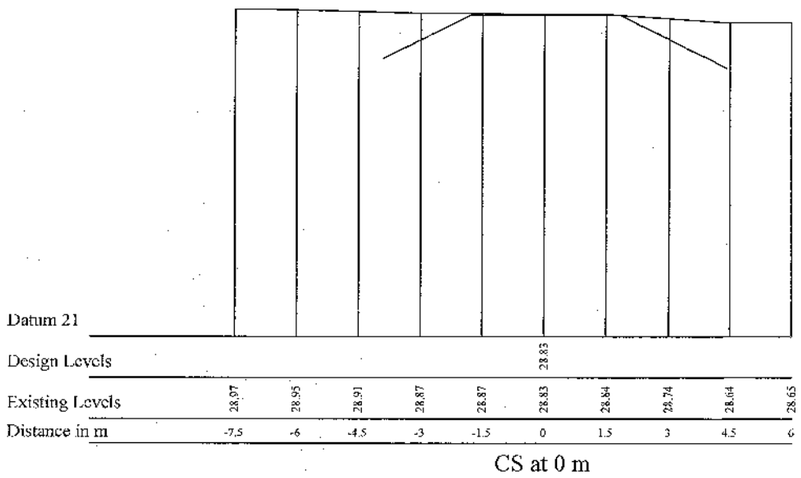
Distance in m	-50	-25	0	5	10	25	50	75	100	125	150	175	200	225	250	275	290	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	718	725	750	775	800	825	850	875	900	925	950	975	1000	1030	1030
Existing Levels	29.26	28.89	28.83	28.94	29.28	29.44	29.5	29.49	29.42	29.59	29.81	29.76	29.69	29.71	29.44	29.57	29.69	29.70	29.69	29.63	29.68	29.54	29.62	29.57	29.58	29.75	29.68	29.71	29.61	29.62	29.57	29.56	29.34	29.35	29.44	29.43	29.35	29.39	29.41	29.39	29.53	29.52	29.54	29.59	29.55	29.53	29.47	29.41	28.15
Existing D/S Teo			28.65	28.67	28.72	28.61	27.35	26.86	26.76	27.97	27.49	26.8	26.02	25.65	25.6	25.25	25.07	25.94	26	25.85	25.74	25.4	25.11	24.65	24.81	24.77	24.95	24.81	24.73	24.54	24.43	24.35	24.64	24.32	25.1	25.03	25.17	25.01	25.1	25.77	25.73	25.67	25.61	25.64	25.58	26.18	24.8	26.3	
Existing U/S Teo			28.97	29.02	28.44	27.19	26.77	26.29	26.03	26.15	26.07	25.79	25.53	25.2	25.07	25.02	25.17	25.16	24.95	24.7	24.6	24.91	24.75	24.83	24.73	25.23	25.24	25.14	24.44	24.59	24.74	24.64	24.49	24.34	24.35	24.4	24.34	24.31	24.39	24.26	24.66	24.75	24.68	25.09	25.14	25.05	24.61	25.33	
Design Levels			28.83	29.05	29.28	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	29.95	

LS of Tank Bund of Mallavikkulam (0+000m - 1+030)

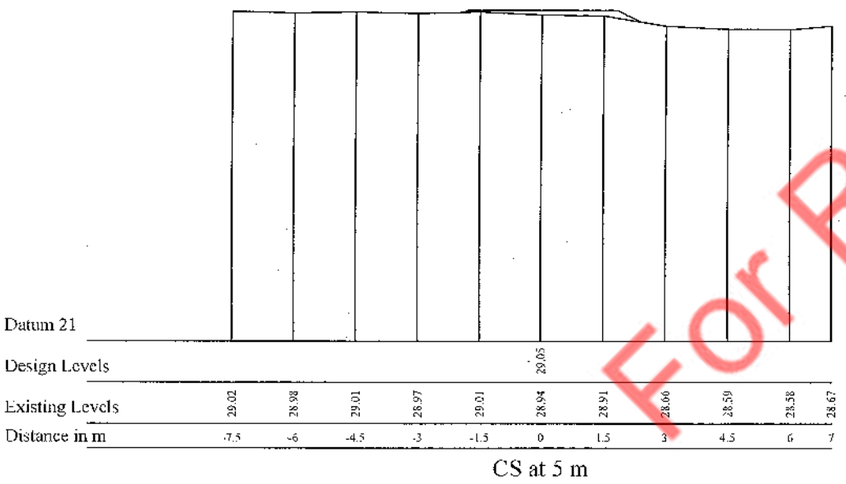
All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT	Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRDIP - 2024		
MULLAITIVU RANGE VAVUNIKULAM DIVISION IWWRMP – 2024	Structure :- Improvements to Tank Bund in Mallavikkulam Location :- LS of Tank Bund of Mallavikkulam (0+000m - 1+030)	IE'S OFFICE	LEVELED & CAO: T.Pratheep, T.O CHECKED: N.Prasannavathanan,T.O SUBMITTED: Eng.I.Sunoj, I.E, Irrigation Engineer, Vavunikulam Division
DATE :- / SHEET NO :- 01 of 01 / DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/ISS-1		DIR'S OFFICE	DRAWN CHECKED: K.Vithusan, D'man. DESIGN CHECKED: , I.E APPROVED: Eng.S.Vihirthan, D.D.I



CS at 0 m



CS at 5 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

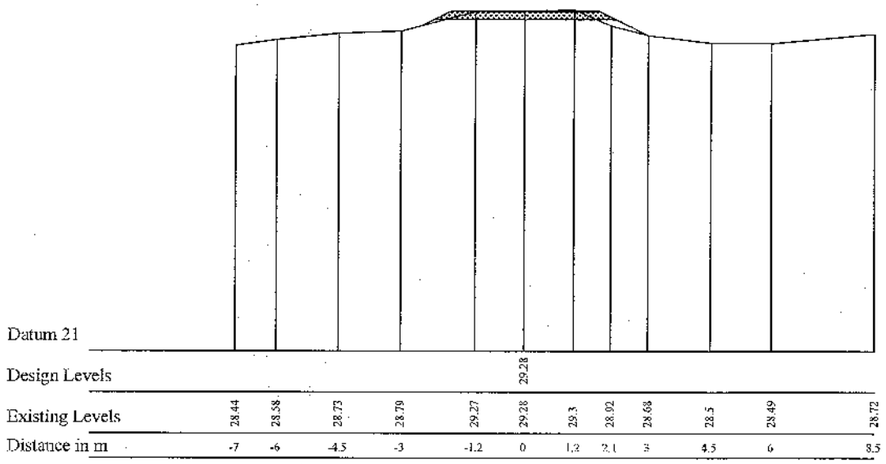
Location :- (0+000m - 0+005)

DATE :-

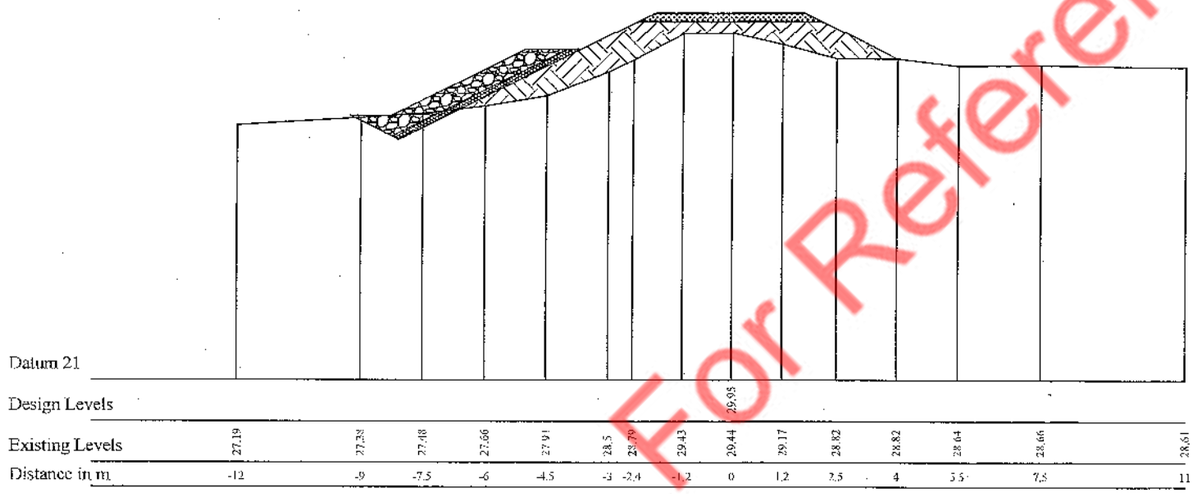
SHEET NO :- 01 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-1

	LEVELED & CAD	CHECKED	SUBMITTED
IE's OFFICE	T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.I.Sunoj, I.E
DIR's OFFICE	DRAWN CHECKED	DESIGN CHECKED	APPROVED
	K.Vithusan, D'man.	, I.E	Eng.S.Vihirthan, D.D.



CS at 10 m



CS at 25 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

Location :- (0+010m - 0+025)

DATE :-

SHEET NO :- 02 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-2

IE's OFFICE

LEVELED & CAD: T.Pratheep, T.O

CHECKED: N.Prasannavathanan,T.O

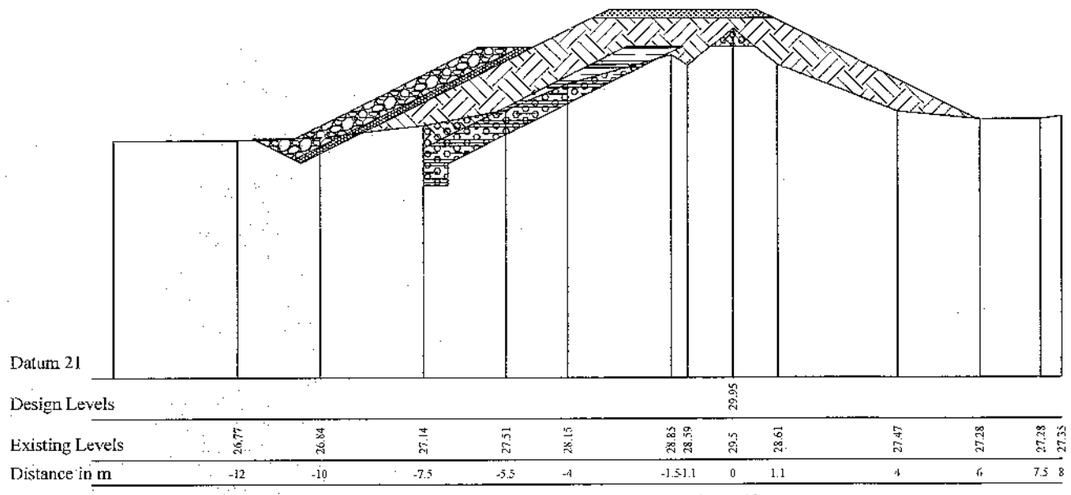
SUBMITTED: Eng. Sunoj, I.E, Irrigation Engineer, Vavunikulam Division

DOI's OFFICE

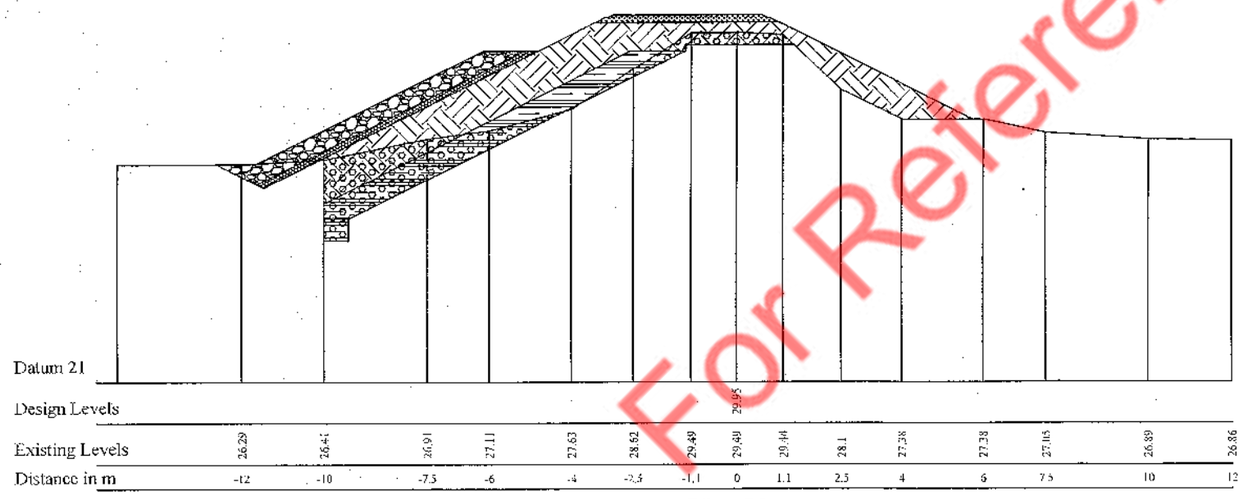
DRAWN CHECKED: A.Ragunan, D'man.

DESIGN CHECKED: , I.E

APPROVED: Eng.S.Vihirthan, D.I.



CS at 50 m



CS at 75 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

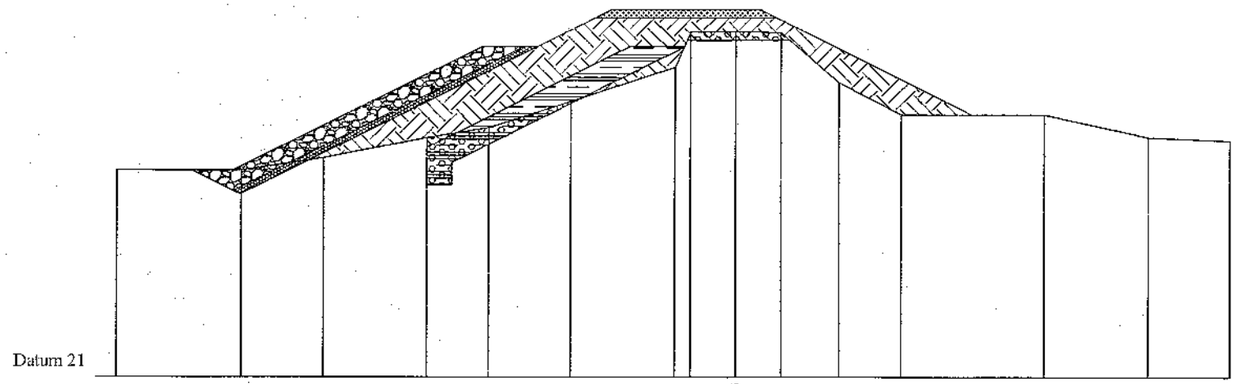
Location :- (0+050m - 0+075)

DATE :-

SHEET NO :- 03 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-3

IE's OFFICE	LEVELED & CAD	CHECKED	SUBMITTED
	T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.I.Sutha, I.E
DDP's OFFICE	DRAWN CHECKED	DESIGN CHECKED	APPROVED
	A.Ragunan, D'man.	, I.E	Eng.S.Vihirthan, A.E



CS at 100 m

CS at 125 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

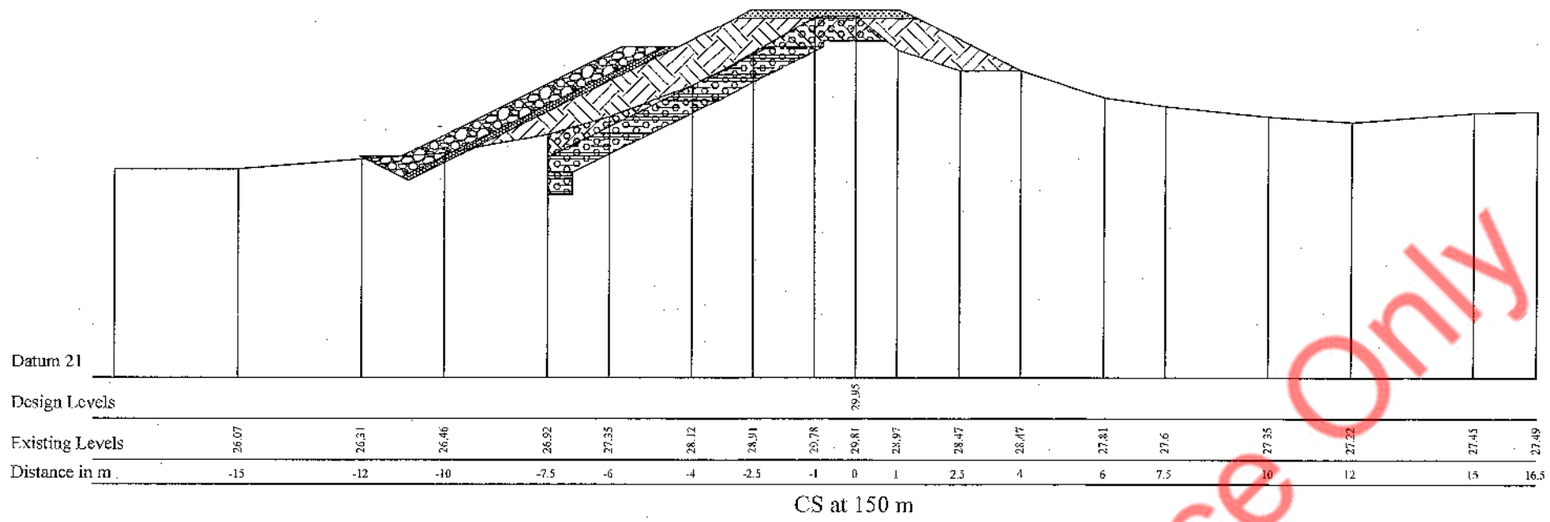
Location :- (0+100m - 0+125)

DATE :-

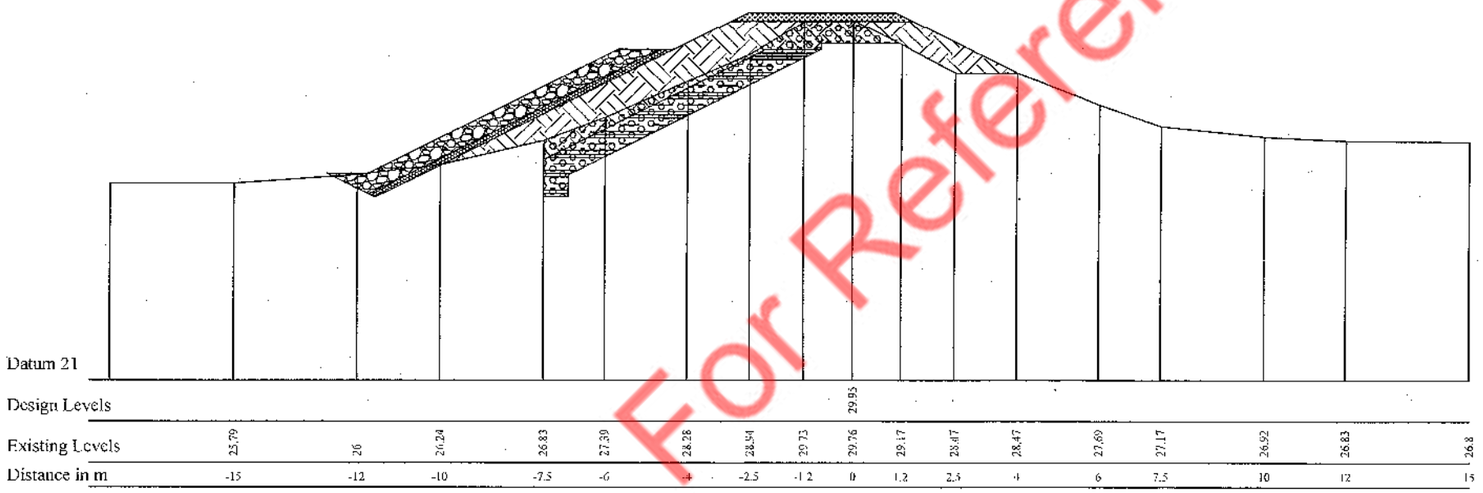
SHEET NO :- 04 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-4

IE'S OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan,T.O	SUBMITTED: Eng.T.Sunoj, Irrigation Engineer, Vavuni Engineers Division, I.E
DD'S OFFICE	DRAWN CHECKED: A.Raguhan, D'man.	DESIGN CHECKED: , I.E	APPROVED: Eng.S.Vibirthan, D.O.I



CS at 150 m



CS at 175 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

Location :- (0+150m - 0+175)

DATE :-

SHEET NO :- 05 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-5

IE's OFFICE

LEVELED & CAD: T.Pratheep, T.O

CHECKED: N.Prasannavathanan,T.O

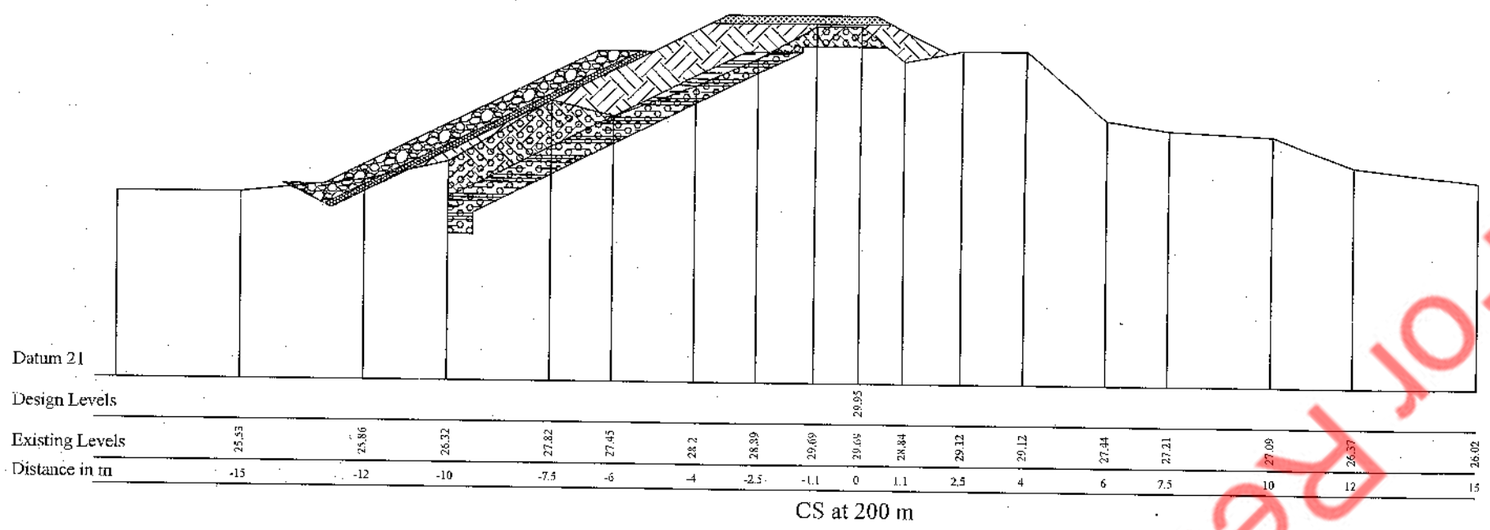
SUBMITTED: Irrigation Engineer, Vavunikulam Division

DOT's OFFICE

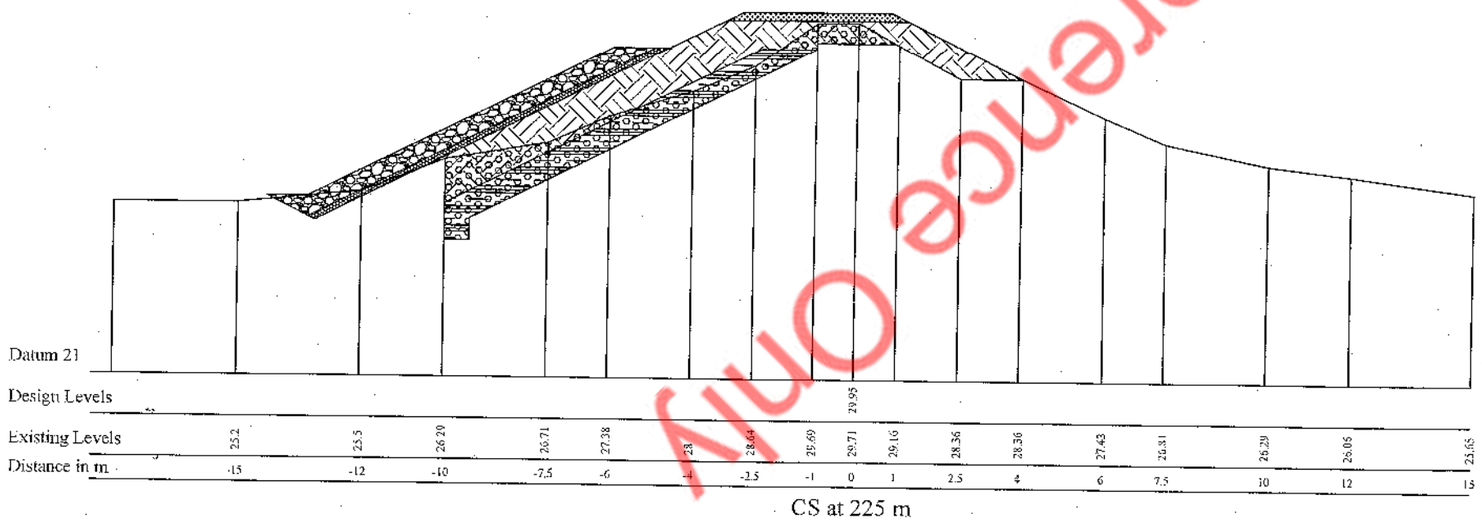
DRAWN CHECKED: A.Ragunan, D'man.

DESIGN CHECKED: , I.E

APPROVED: Eng.S.Vihirthan, D.D.I



CS at 200 m



CS at 225 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITTIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Weirs & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

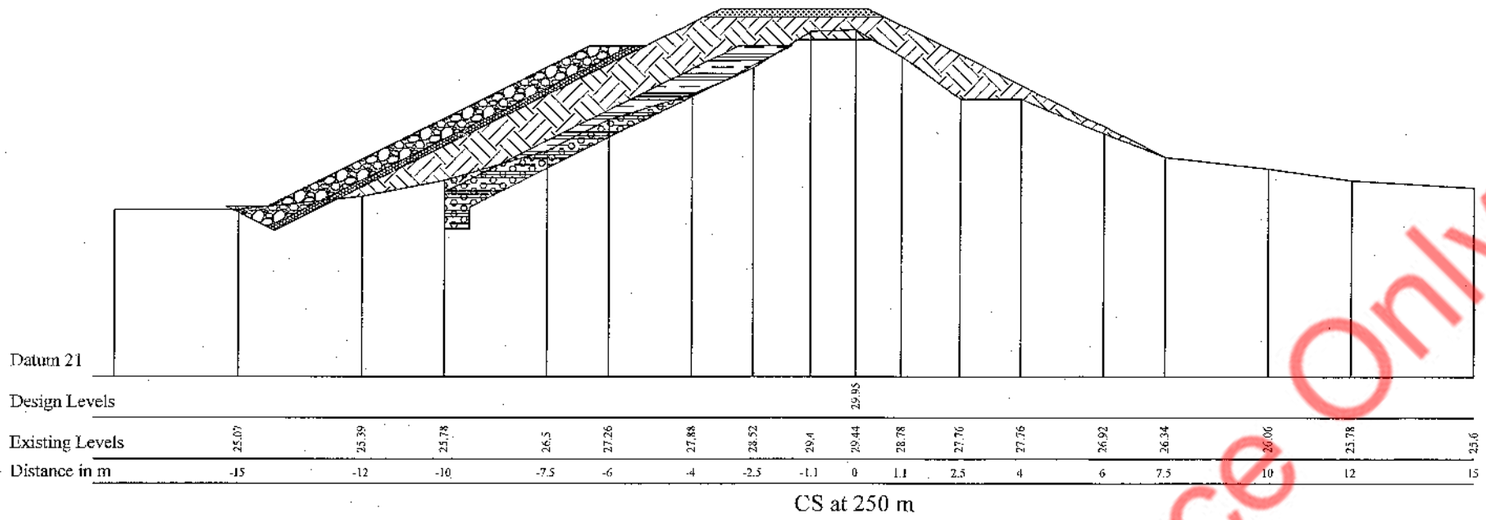
Location :- (0+200m - 0+225)

DATE :-

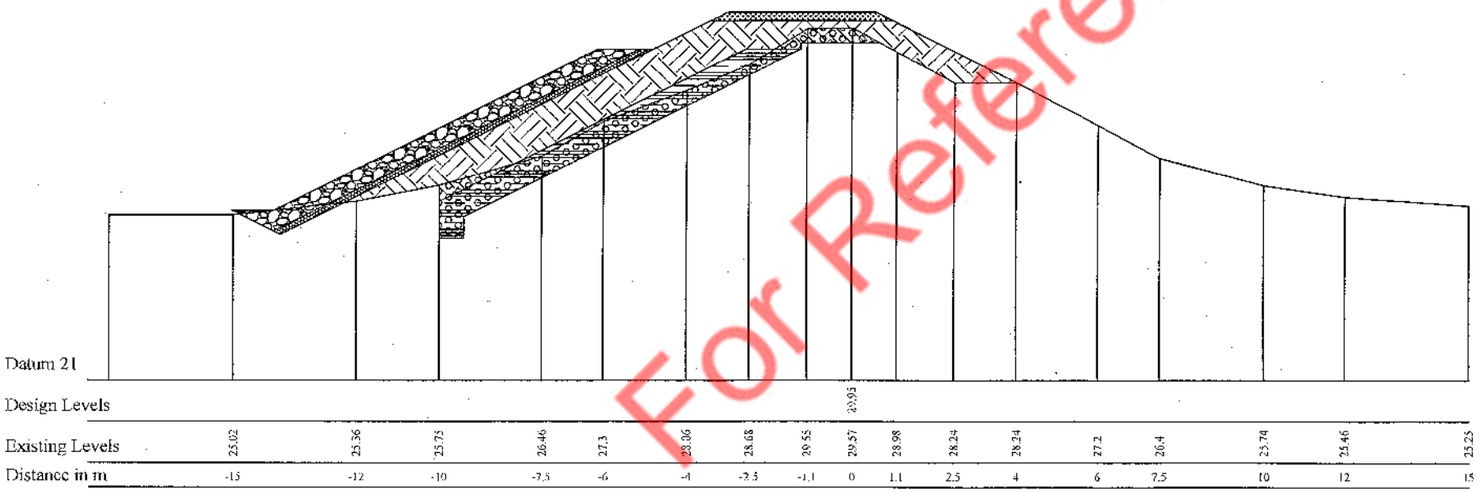
SHEET NO :- 06 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-6

IE'S OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan,T.O	SUBMITTED: Irrigation Engineer, Vavunikkulam Division
DIR'S OFFICE	DRAWN CHECKED: A.Ragunan, D.man.	DESIGN CHECKED: , I.E	APPROVED: Eng.S.Vithithan, D.I.R



CS at 250 m



CS at 275 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

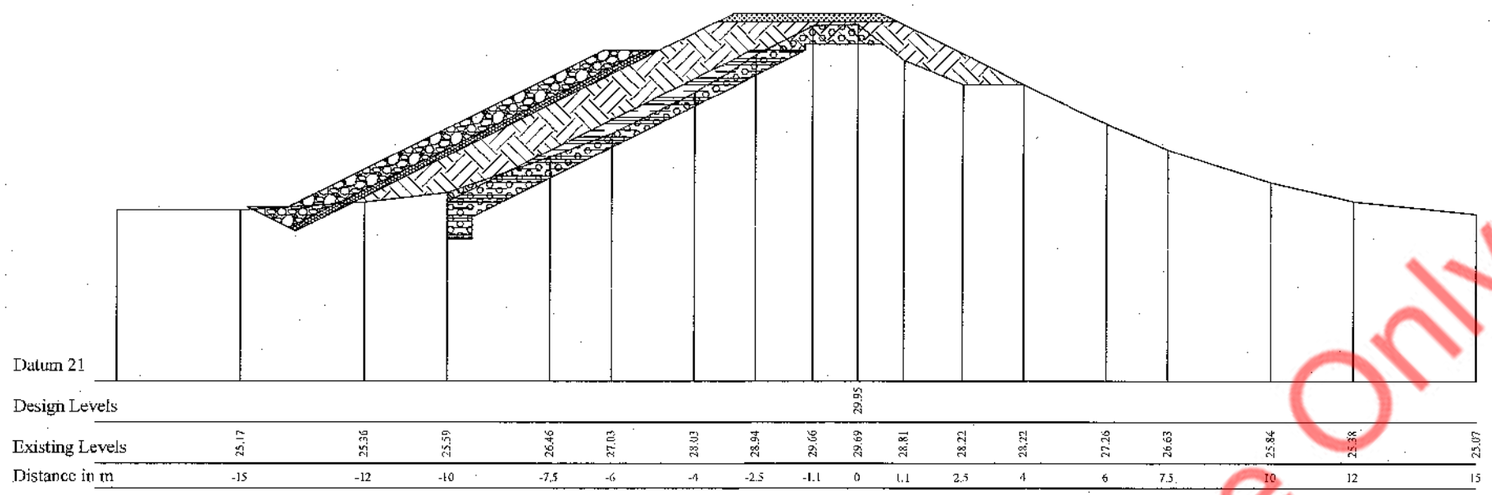
Location :- (0+250m - 0+275)

DATE :-

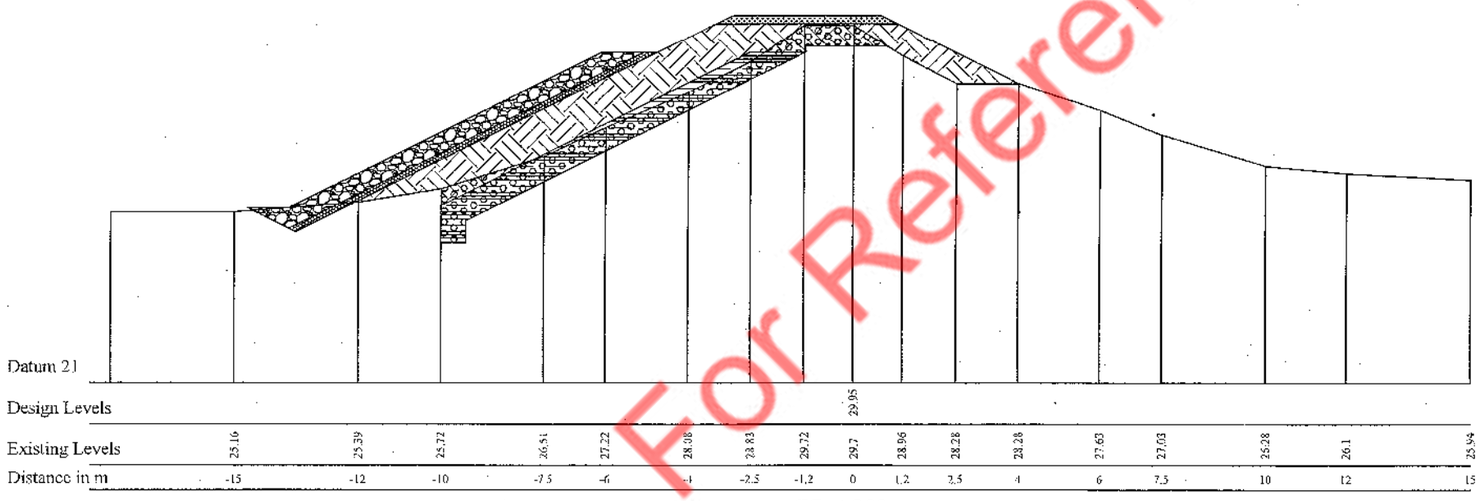
SHEET NO :- 07 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-7

JE's OFFICE			
	LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O	SUBMITTED Engr. S.Suboj Irrigation Engineer Vavunikulam Division Vavuniya Island, I.E
AE's OFFICE	DRAWN CHECKED A.Ragunan, D'man.	DESIGN CHECKED , I.E	APPROVED Eng.S.Vihirthan, C.E., I.E



CS at 290 m



CS at 300 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITTIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

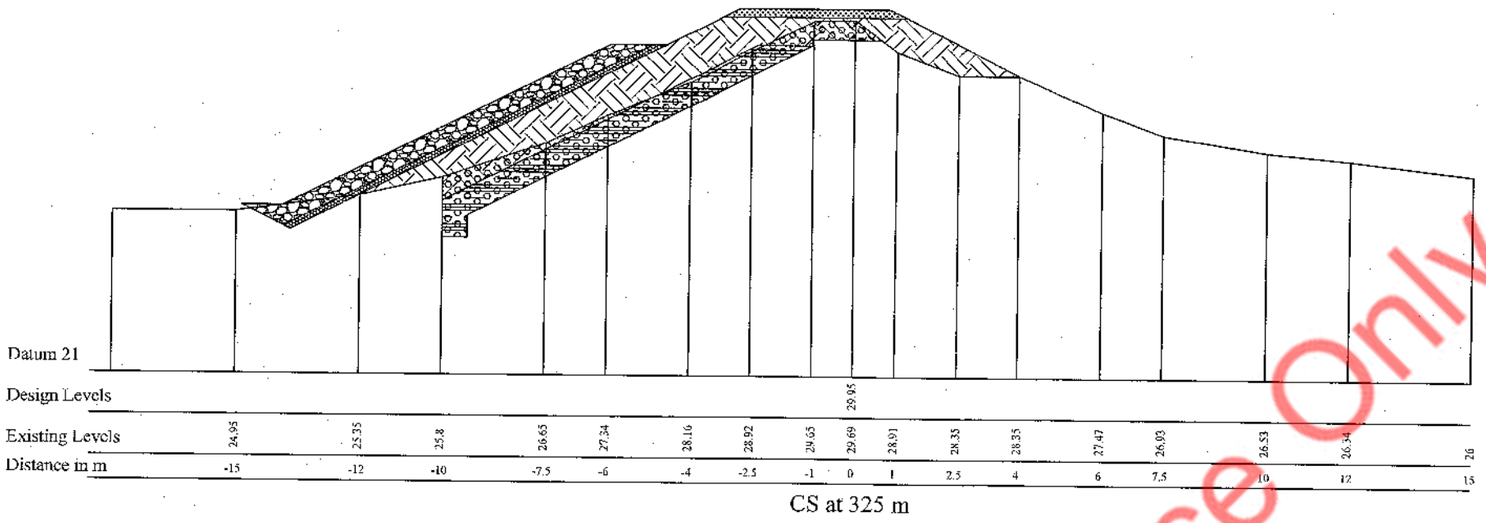
Location :- (0+290m - 0+300)

DATE :-

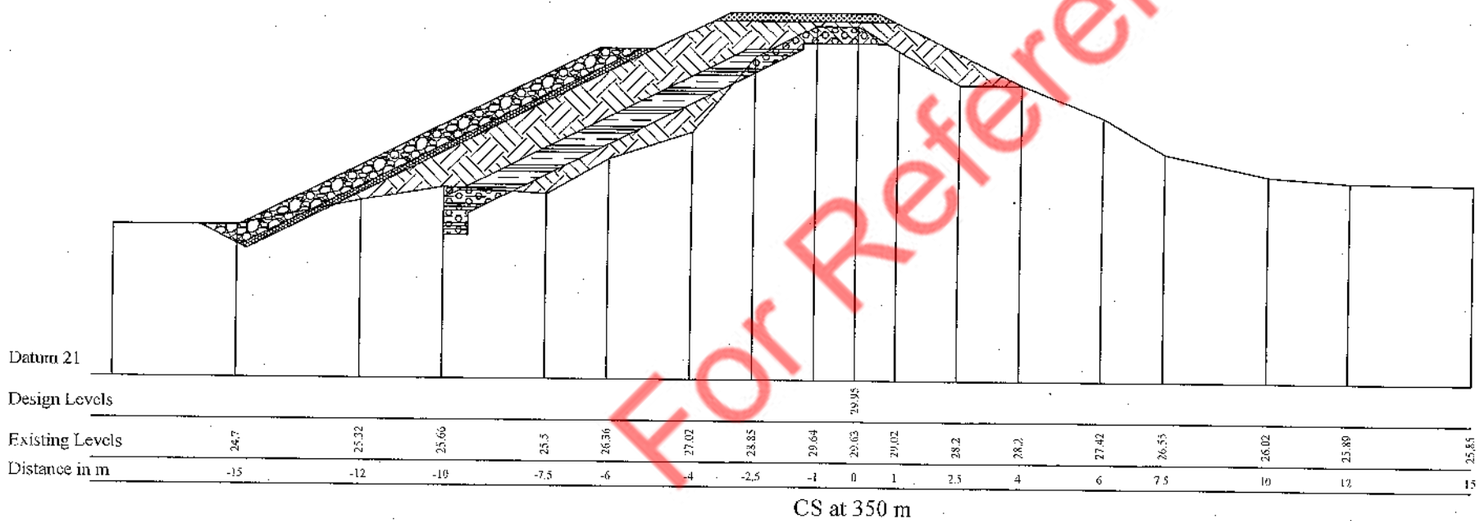
SHEET NO :- 08 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-8

DE's OFFICE	LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O	SUBMITTED Eng.I.Suroj, I.E Irrigation Engineer Vavuniya N. Division
DOE's OFFICE	DRAWN CHECKED A.Ragunan, D'man.	DESIGN CHECKED , I.E	APPROVED Eng.S.Vithushan, A.D.I



CS at 325 m



CS at 350 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

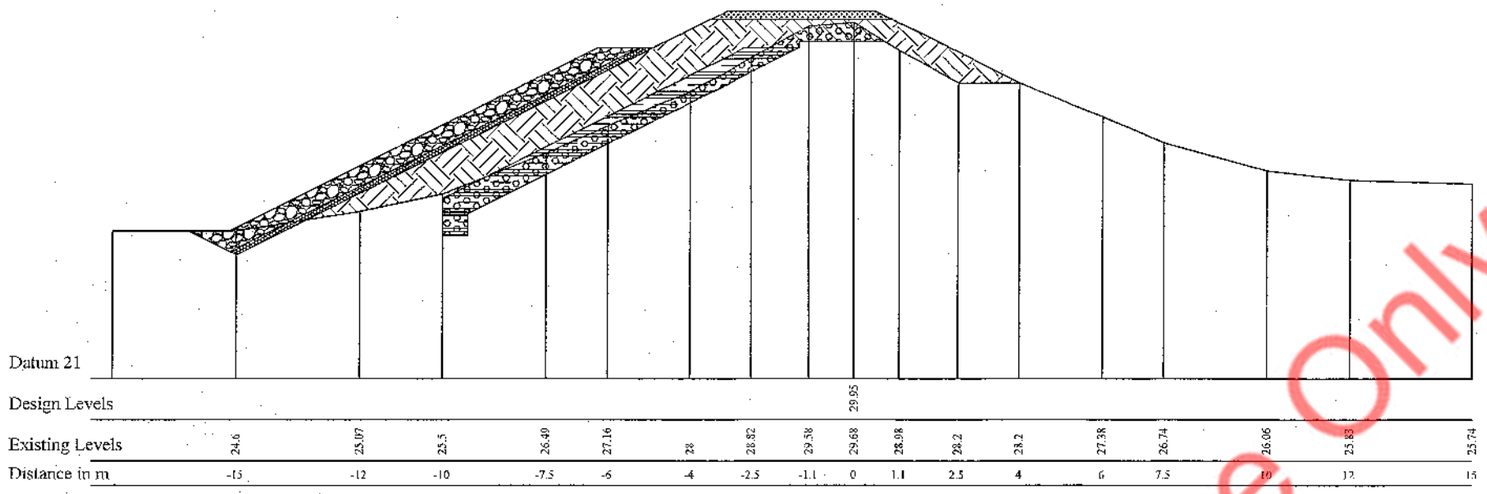
Location :- (0+325m - 0+350)

DATE :-

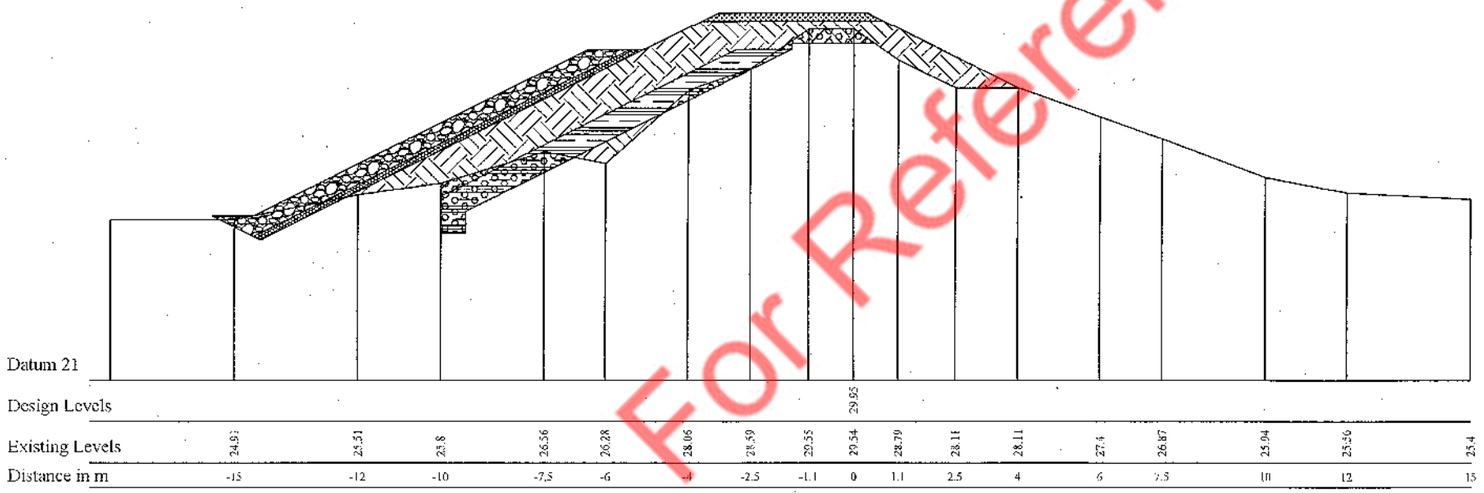
SHEET NO :- 09 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-9

HE's OFFICE	LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O	SUBMITTED Engr. Sanoj Irrigation Engineer Vavuniya Irrigation Division
DIST's OFFICE	DRAWN CHECKED A.Ragunan, Osman.	DESIGN CHECKED , I.E	APPROVED Eng.S. Vithuthas, D.C.E



CS at 375 m



CS at 400 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

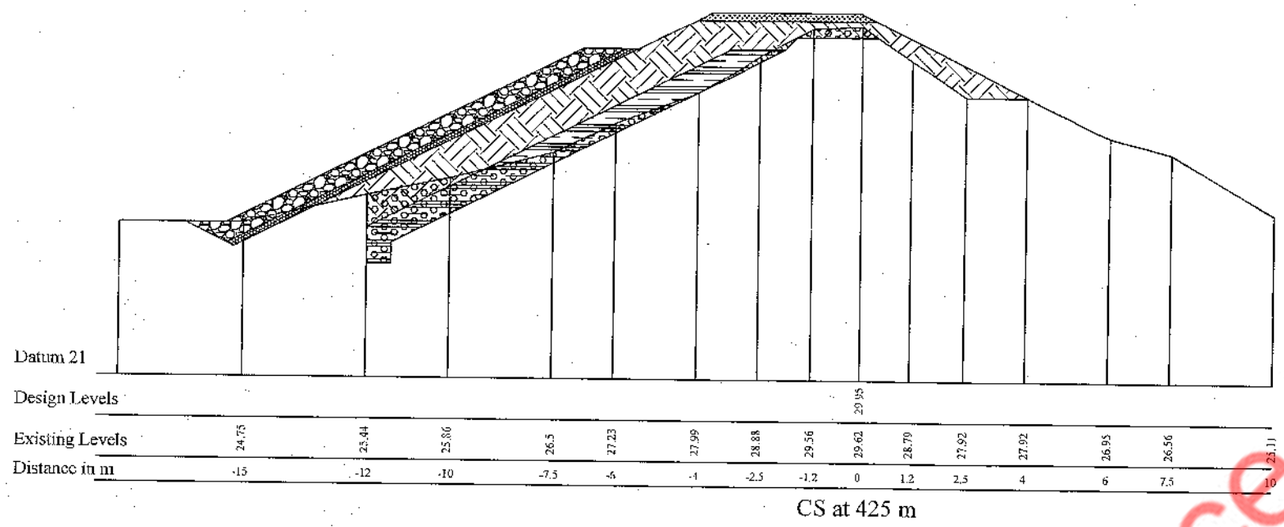
Location :- (0+375m - 0+400)

DATE :-

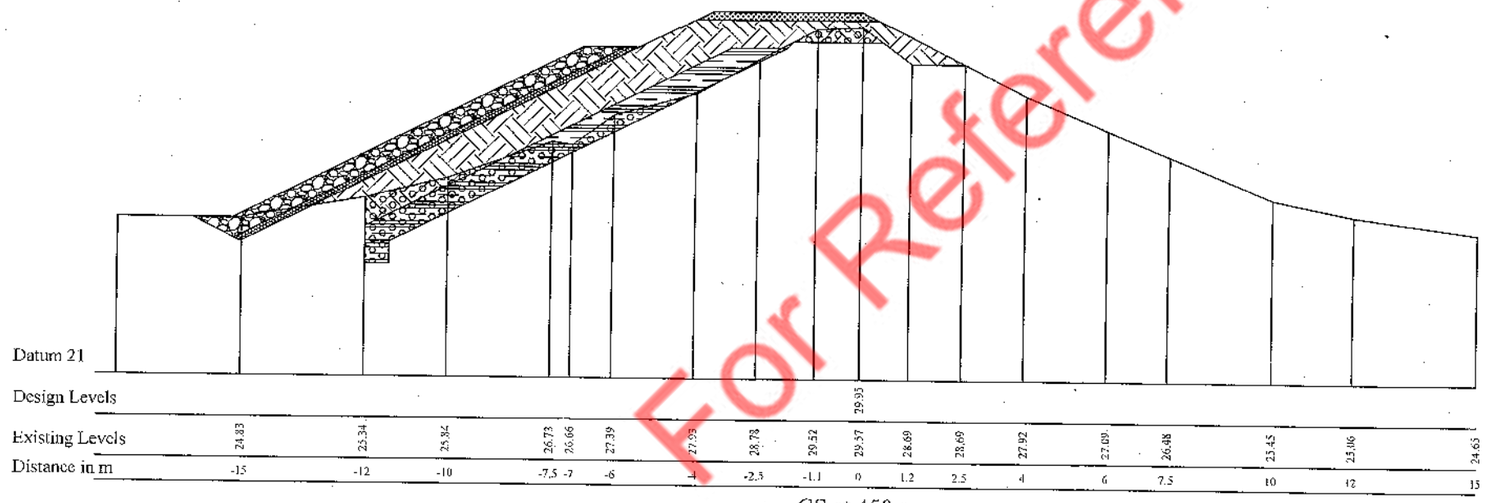
SHEET NO :- 10 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-10

	LEVELED & CAD	CHECKED	SUBMITTED
IE's OFFICE	T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.L.Sunoj, Irrigation Engineer, Vavuniya Engineering Division
DIRECTOR's OFFICE	DRAWN CHECKED: A.Ragunan, D'man.	DESIGN CHECKED: , I.E	APPROVED: Eng.S.Vithiharan, D.D.I.



CS at 425 m



CS at 450 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

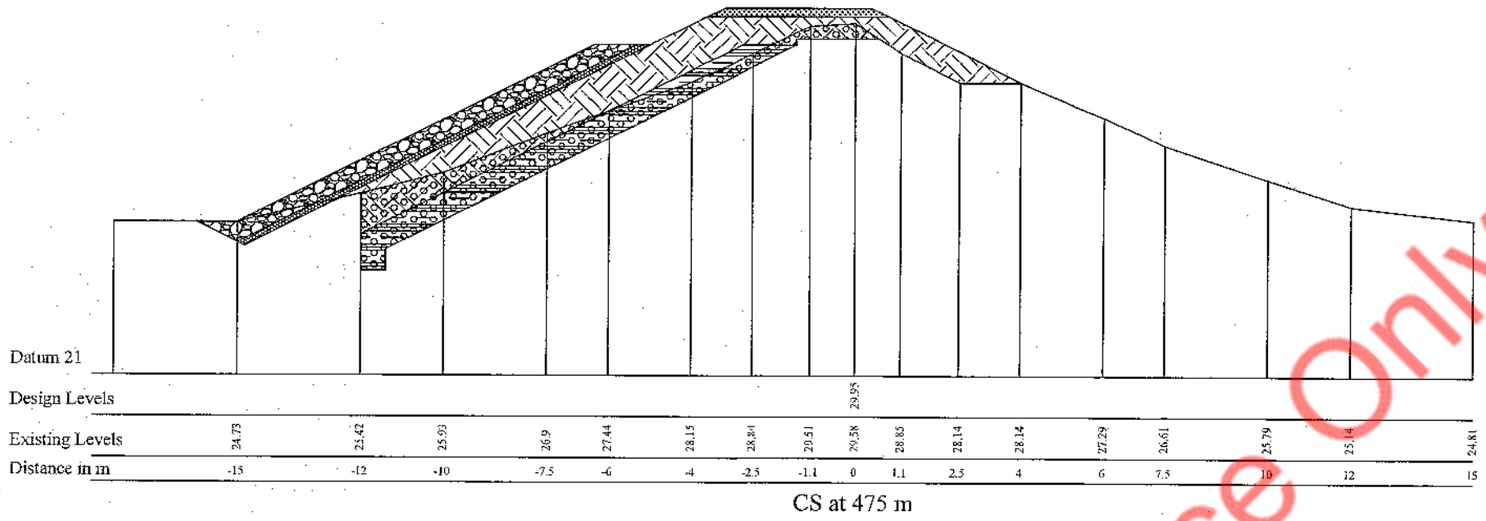
Location :- (0+425m - 0+450)

DATE :-

SHEET NO :- 11 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-11

IE's OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan, T.O	SUBMITTED: Irrigation Engineer, Vavunikulam Division
AE's OFFICE	DRAWN CHECKED: A.Ragunan, D'man.	DESIGN CHECKED: , I.E	APPROVED: Dy. Eng.S



CS at 475 m

CS at 500 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

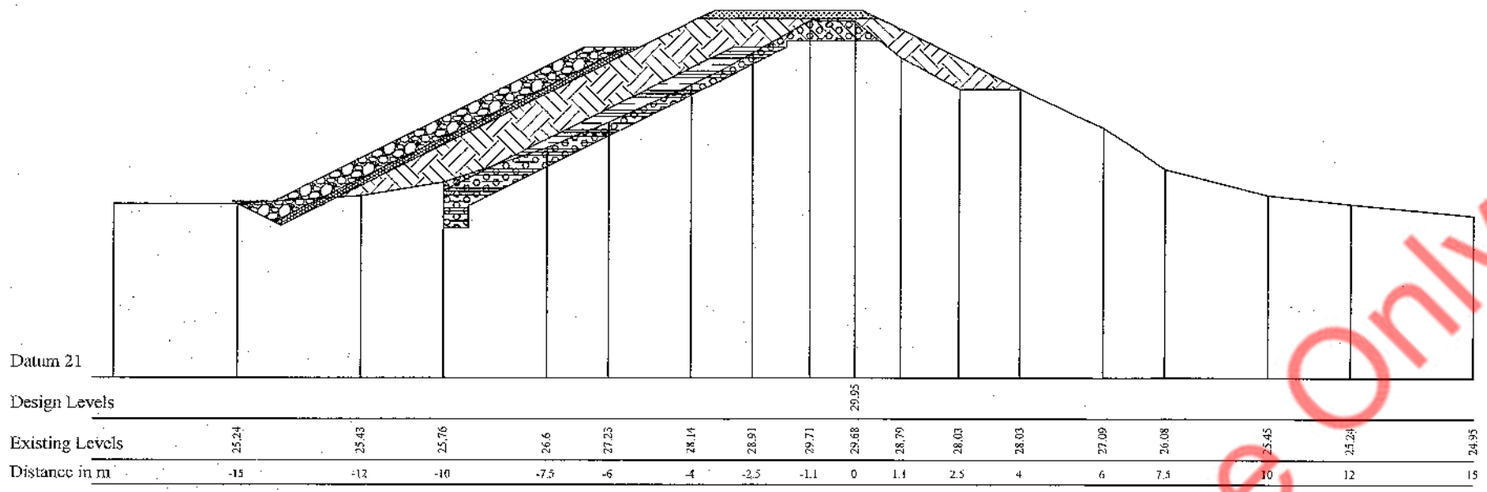
Location :- (0+475m - 0+500)

DATE :-

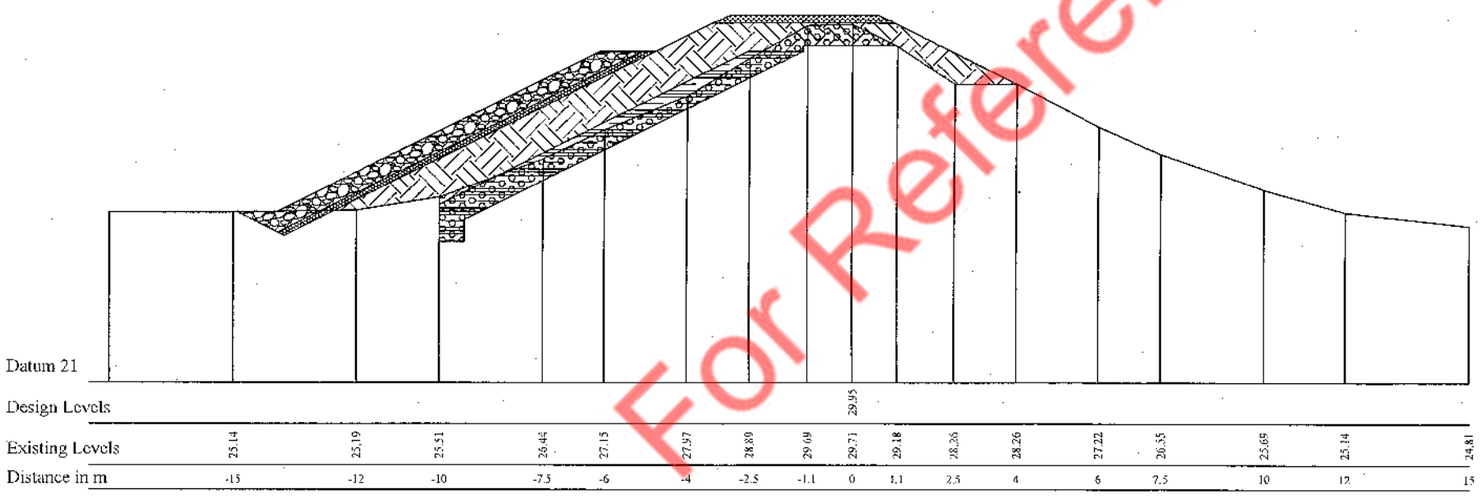
SHEET NO :- 12 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-12

IE's OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan,T.O	SUBMITTED: Eng.J.Sunoj, I.E (Irrigation Engineer, Vavunikkulam Division)
DDI's OFFICE	DRAWN CHECKED: A.Ragunan, Draun.	DESIGN CHECKED: , I.E	APPROVED: Eng.S.Vihirthan, D.D.I



CS at 525 m



CS at 550 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

Location :- (0+525m - 0+550)

DATE :-

SHEET NO :- 13 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-13

IE's OFFICE

LEVELED & CAD: T.Pratheep, T.O

CHECKED: N.Prasannavatharan,T.O

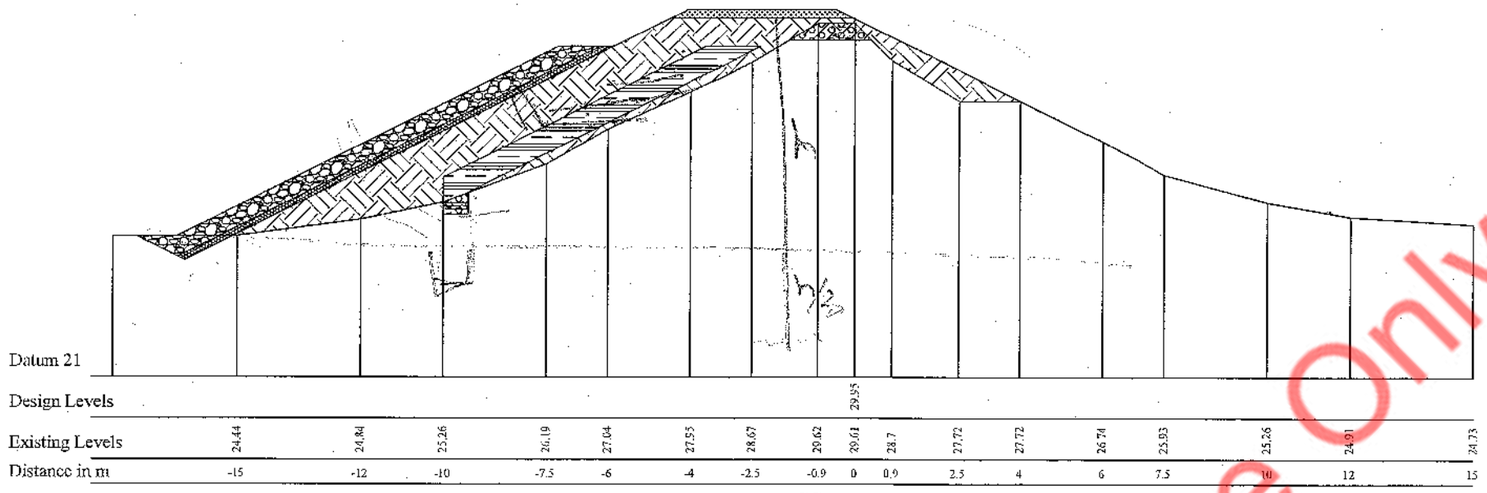
SUBMITTED: Eng.J.Sunoj, Irrigation Engineer, Vavunikulam Division

DRD's OFFICE

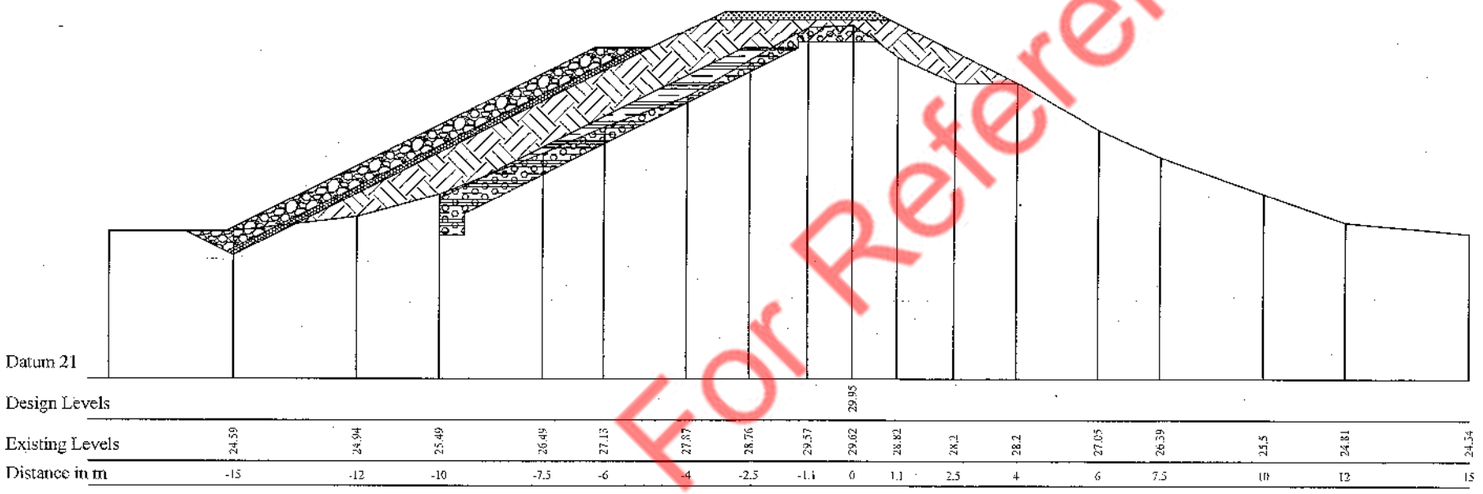
DRAWN CHECKED: A.Ragulan, D'man.

DESIGN CHECKED: , I.E

APPROVED: Eng.S.Vihirthan, O.D



CS at 575 m



CS at 600 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

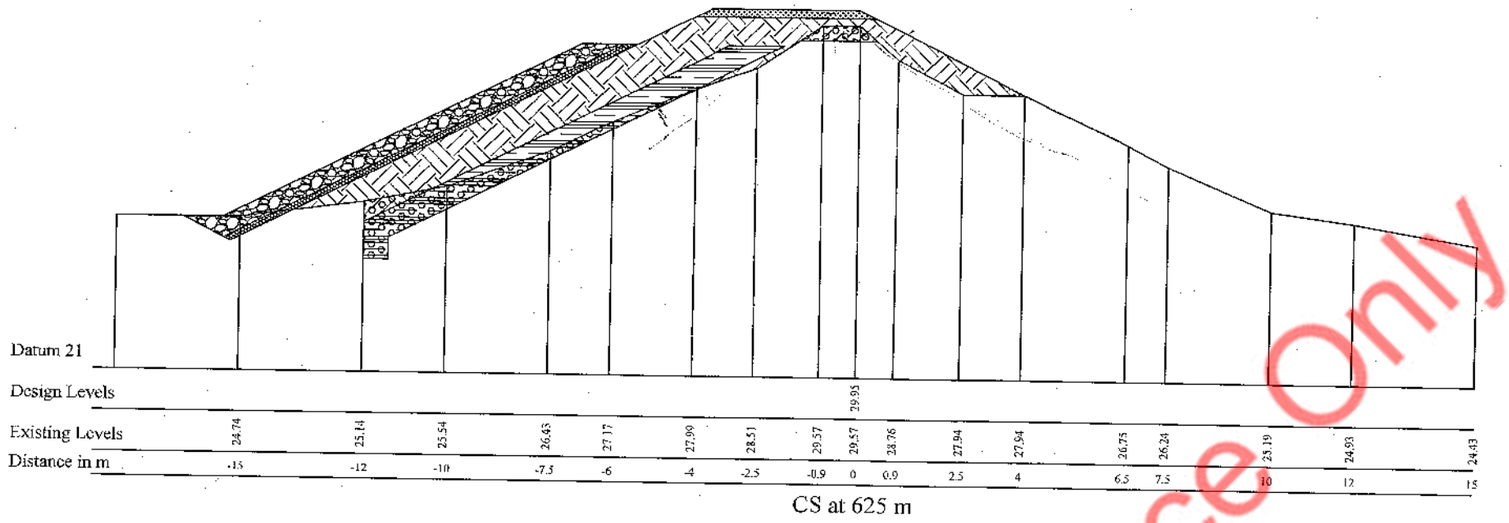
Location :- (0+575m - 0+600)

DATE :-

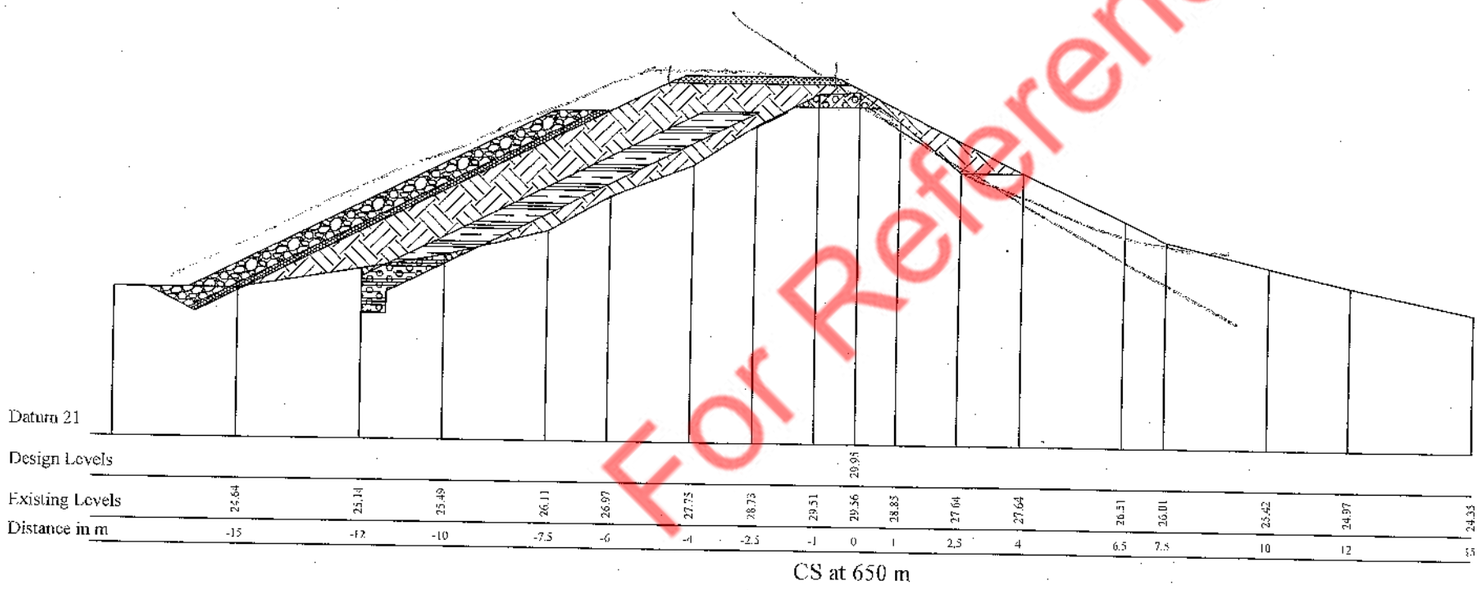
SHEET NO :- 14 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-14

DES. OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan,T.O	SUBMITTED: Eng. S. Sabaj, Irrigation Engineer, Vavuni Engineering Division
DOI'S OFFICE	DRAWN CHECKED: A.Ragavan, D'man.	DESIGN CHECKED: , I.E	APPROVED: Eng. S. Vihirthan, C...



CS at 625 m



CS at 650 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length : ———

Str.L :-Stripping Length : ———

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITTIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

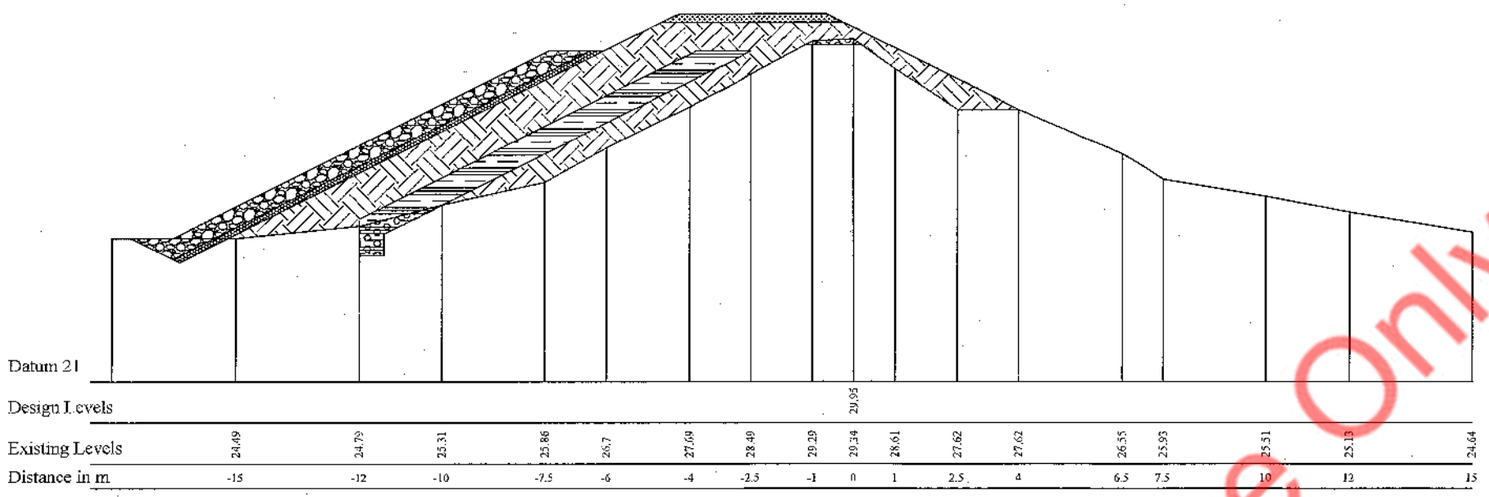
Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

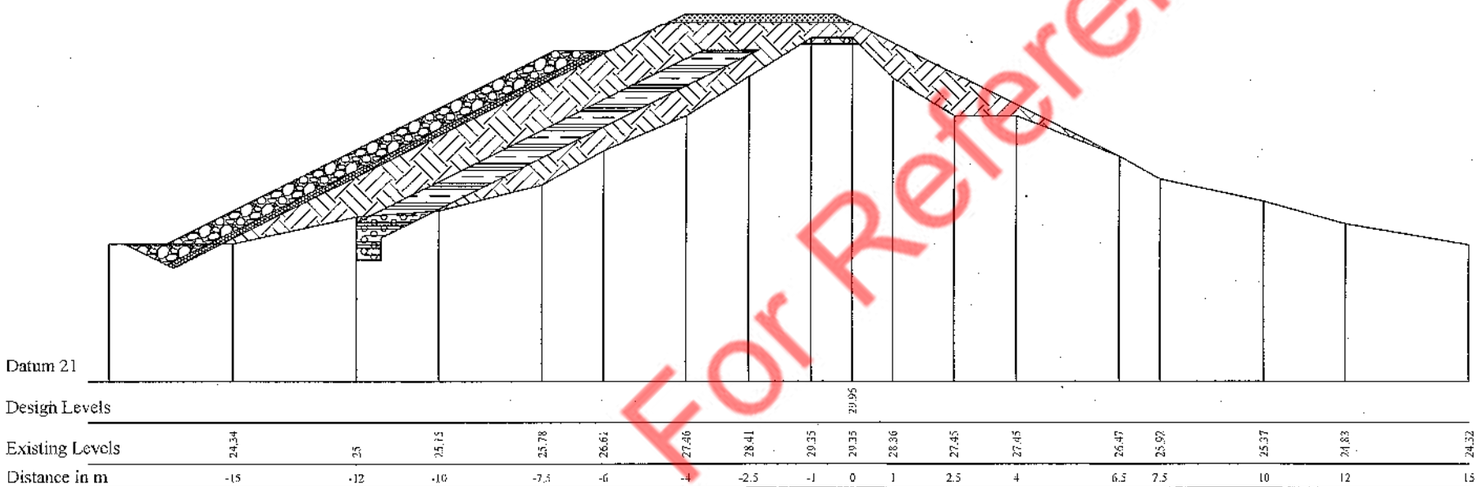
Location :- (0+625m - 0+650)

DATE :- | SHEET NO :- 15 of 23 | DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-15

IE'S OFFICE			
LEVELED & CAD	CHECKED	SUBMITTED
T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.J.Suneej Irrigation Engineer Vavunikkulam Division
DRAWN CHECKED	DESIGN CHECKED	APPROVED
A.Ragutharan, D'man		



CS at 675 m



CS at 700 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length : ———

Str.L :-Stripping Length : ———

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

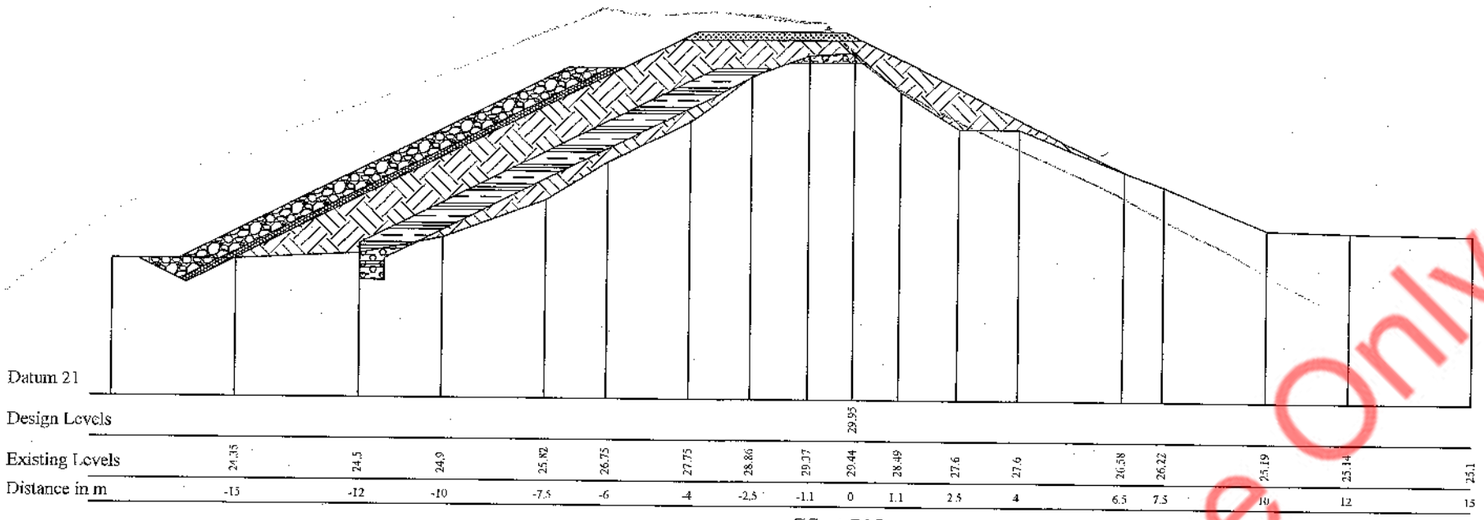
Location :- (0+675m - 0+700)

DATE :-

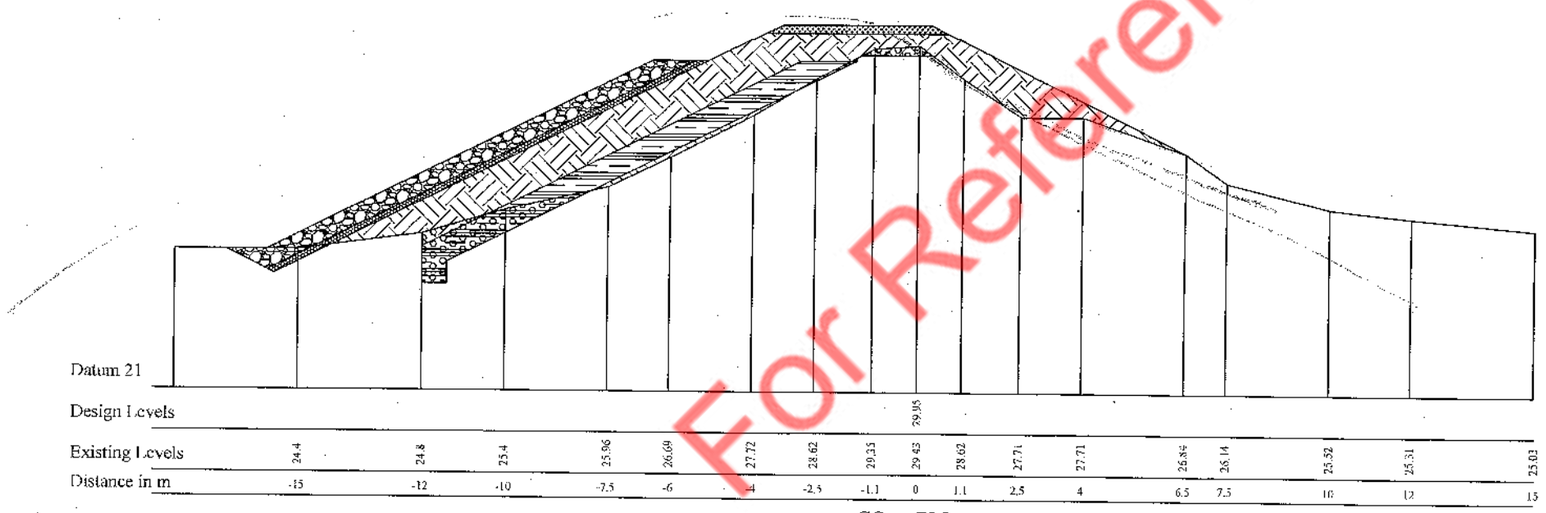
SHEET NO :- 16 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-16

	LEVELED & CAD	CHECKED	SUBMITTED
IE's OFFICE	T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.I. Sunoj, Irrigation Engineer, Vavunikulam Division
DD's OFFICE	DRAWN CHECKED: A.Ragunan, D'man.	DESIGN CHECKED: , I.E	APPROVED: Eng.S.Vihirthan, D.D



CS at 718 m



CS at 725 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

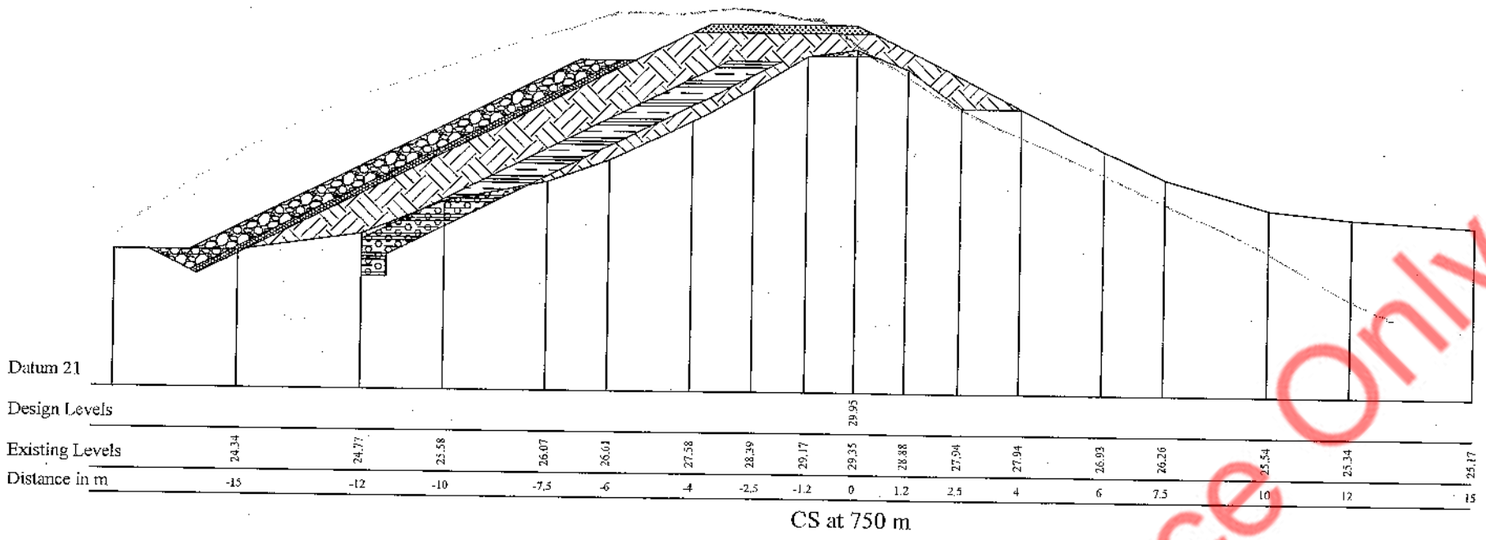
Location :- (0+718m - 0+725)

DATE :-

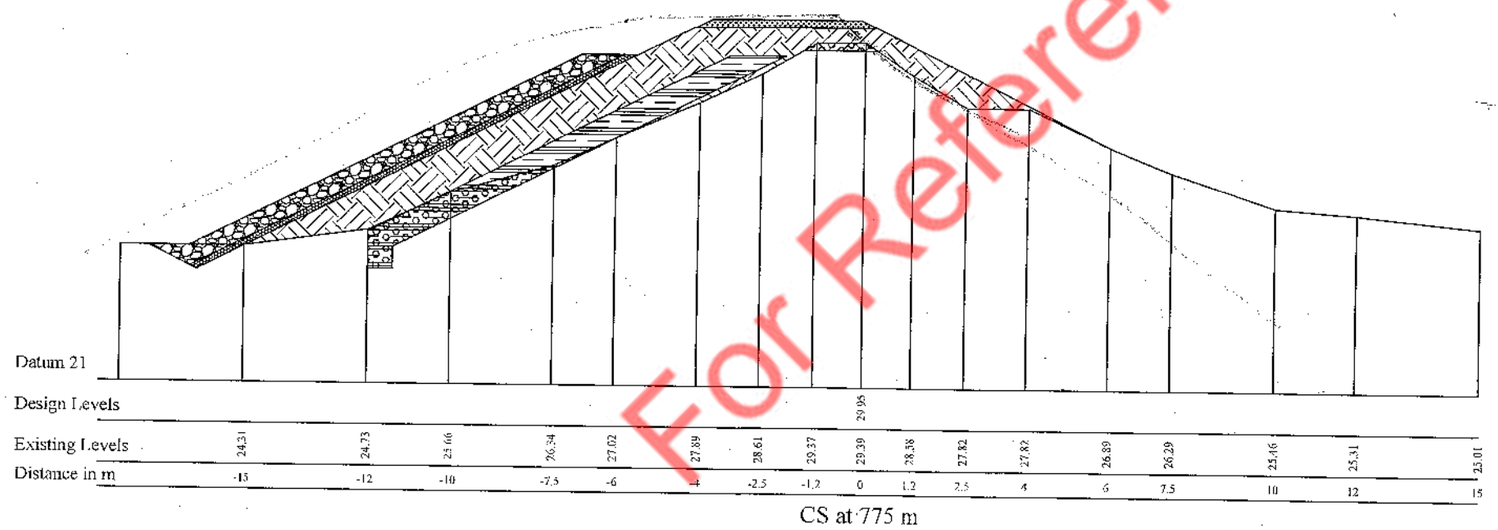
SHEET NO :- 17 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-17

IE'S OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan,T.O	SUBMITTED: Eng. K.Sunoj, Irrigation Engineer, Vavuniya Engineering Division
DIR'S OFFICE	DRAWN CHECKED: A.Ragunan, D'man.	DESIGN CHECKED: , I.E	APPROVED: Eng.S.Vibirthan, D.O.



CS at 750 m



CS at 775 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length : ——

Str.L :-Stripping Length : ——

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

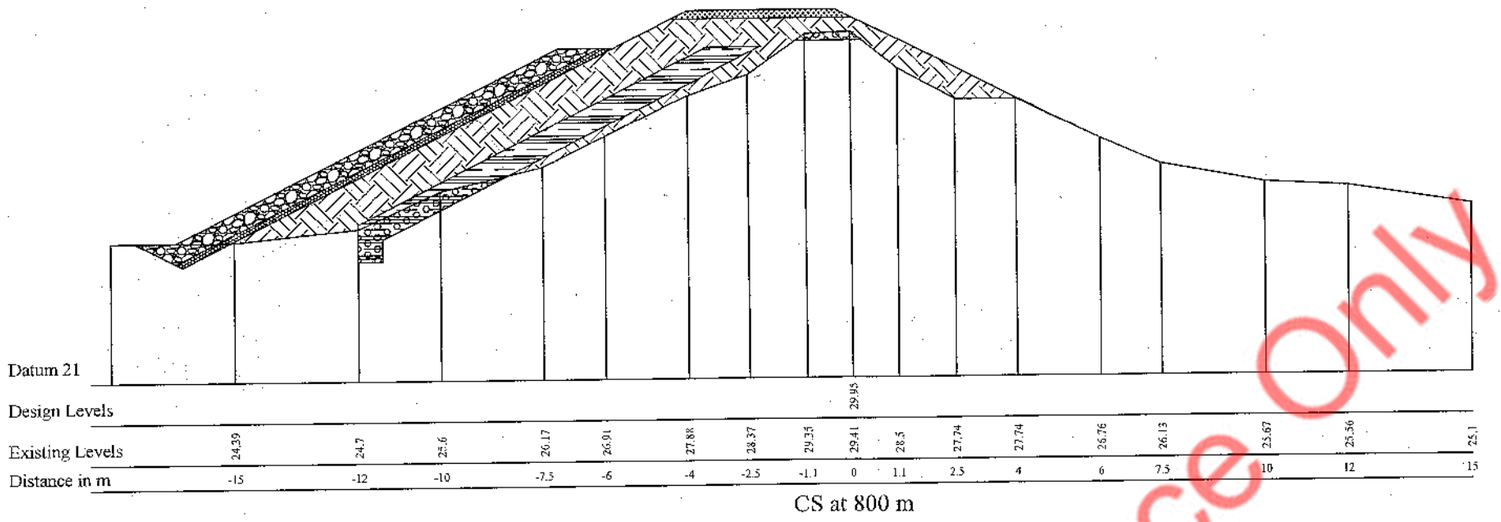
Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

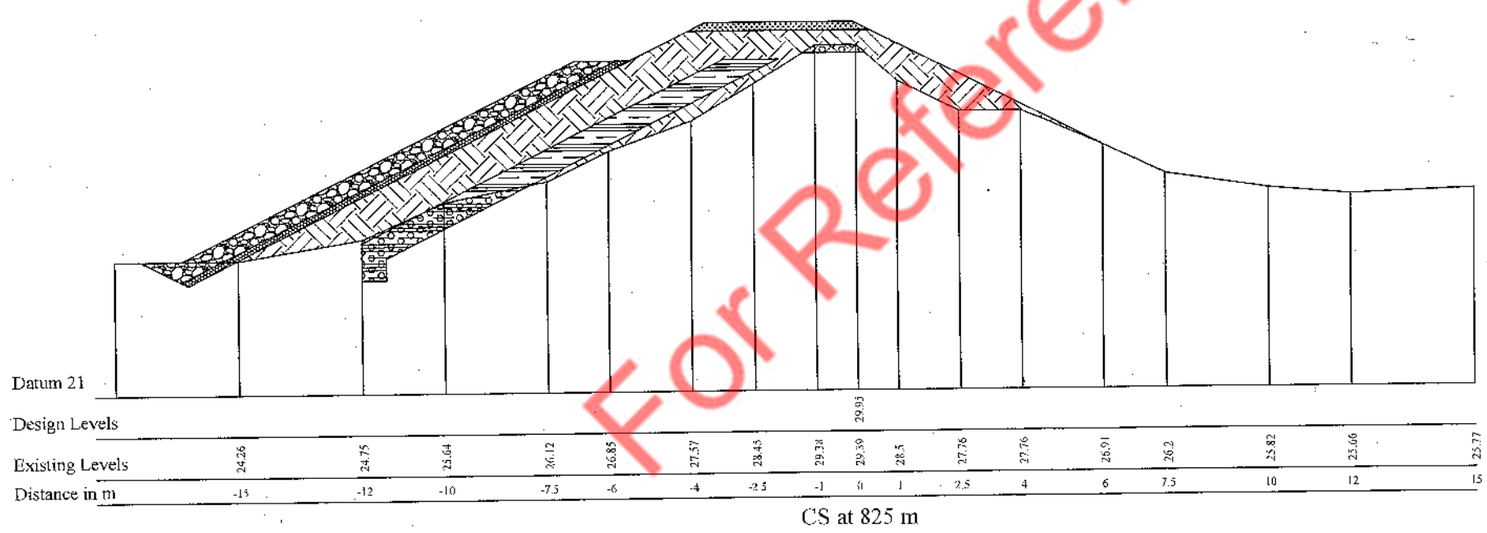
Location :- (0+750m - 0+775)

DATE :- | SHEET NO :- 18 of 23 | DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-18

IE's OFFICE	LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O	SUBMITTED Eng.I.Sunoj, I.E Irrigation Engineer Vavunikulam Division
DD I's OFFICE	DRAWN CHECKED A.Ragunan, D'man.	DESIGN CHECKED , I.E	APPROVED Eng.S.Vibidhan, D.I.E



CS at 800 m



CS at 825 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

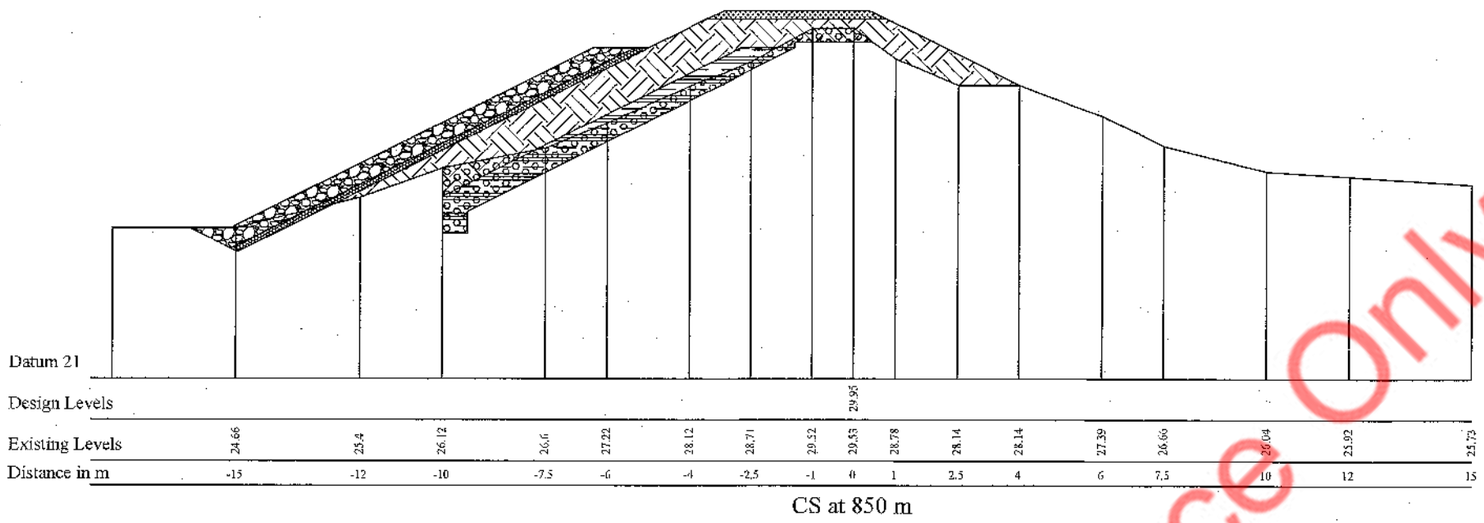
Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

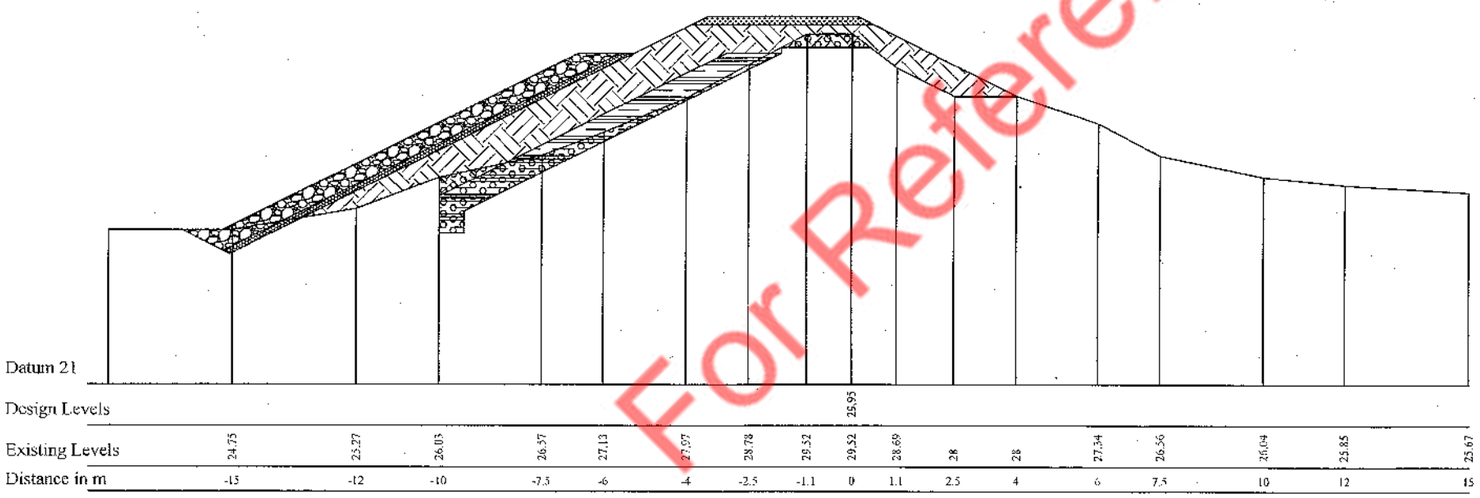
Location :- (0.800m - 0+825)

DATE :- | SHEET NO :- 19 of 23 | DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-19

IE's OFFICE			
	LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O	SUBMITTED Eng.T. Sunoj Irrigation Engineer Vavunikulam Division
DEE's OFFICE	DRAWN CHECKED A.Ragunan, D'man.	DESIGN CHECKED , I.E	APPROVED Eng.S. Vihirthan, G.A



CS at 850 m



CS at 875 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

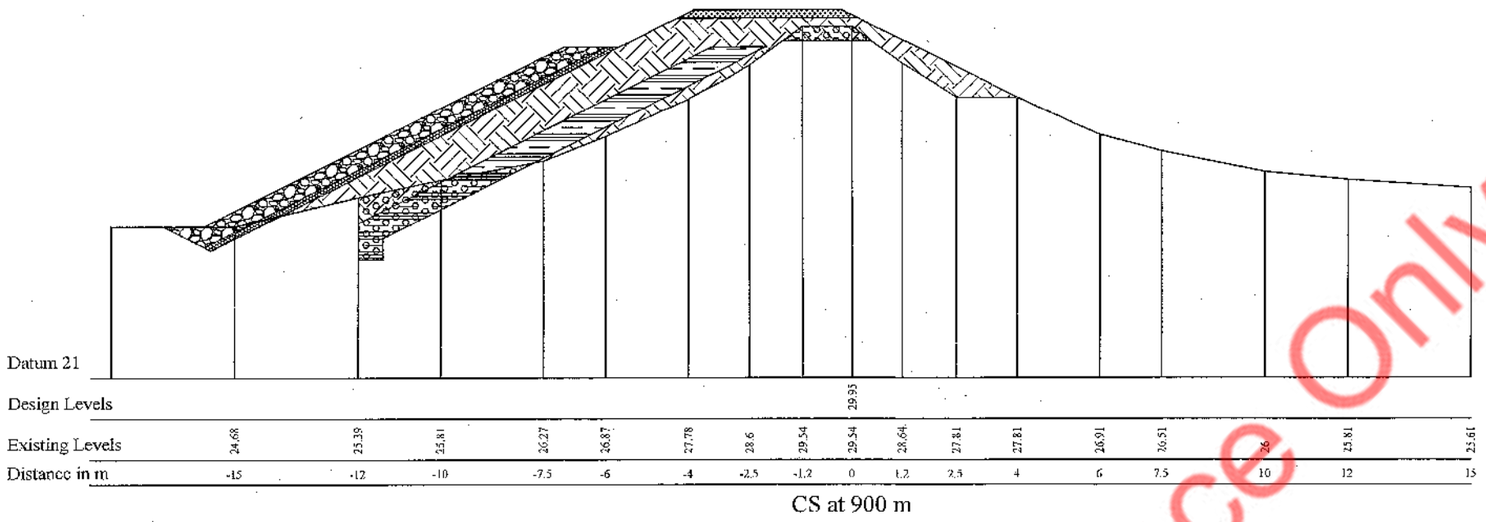
Location :- (0+85000m - 0+875)

DATE :-

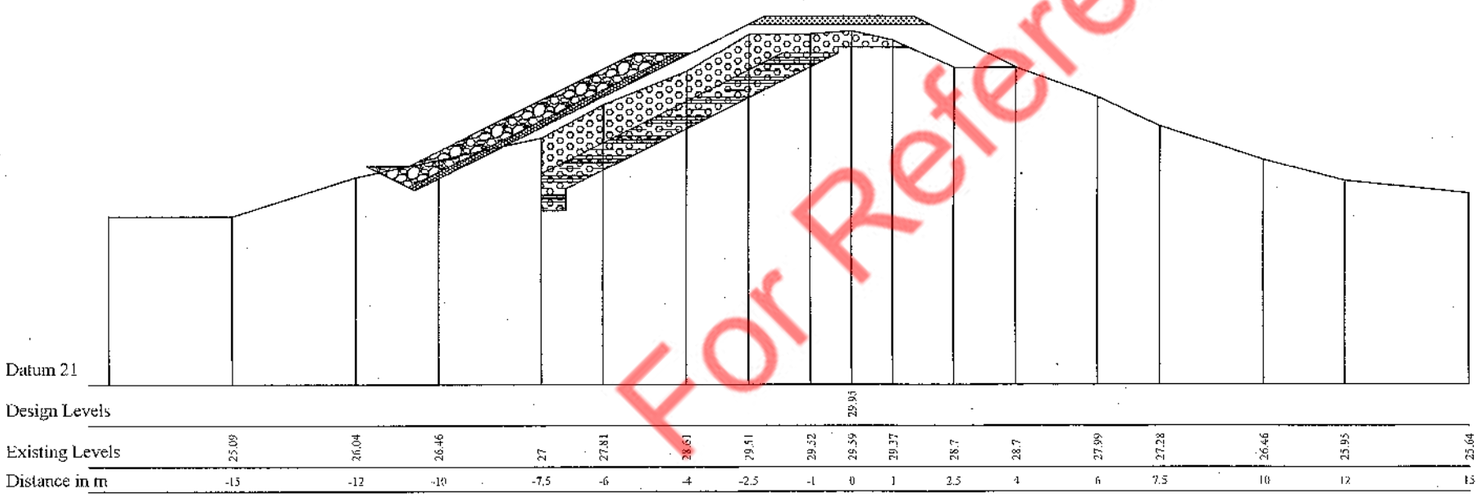
SHEET NO :- 20 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Main/Bund/CSS-20

DRG'S OFFICE			
LEVELED & CAD	CHECKED	SUBMITTED	
T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.K.Sunoj Irrigation Engineer Vavunikulam Division	
DRAWN CHECKED	DESIGN CHECKED	APPROVED	
A.Ragunan, D'man.	, I.E	Eng.K.Vihirtha, A.D.O	



CS at 900 m



CS at 925 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

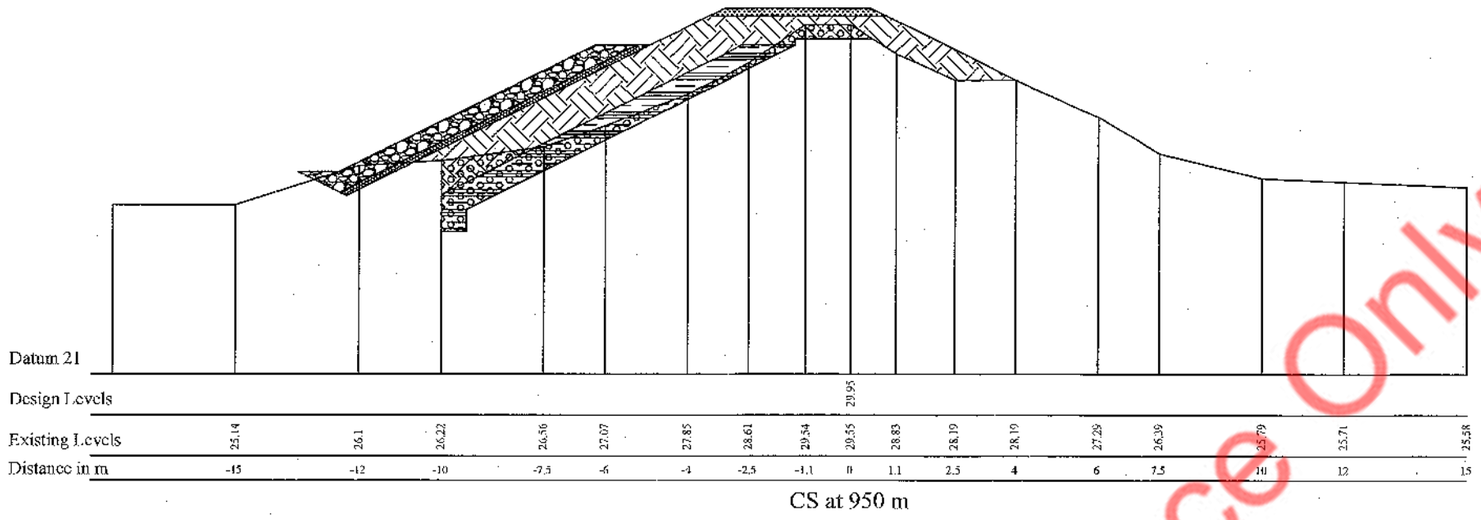
Location :- (0+900m - 0+925)

DATE :-

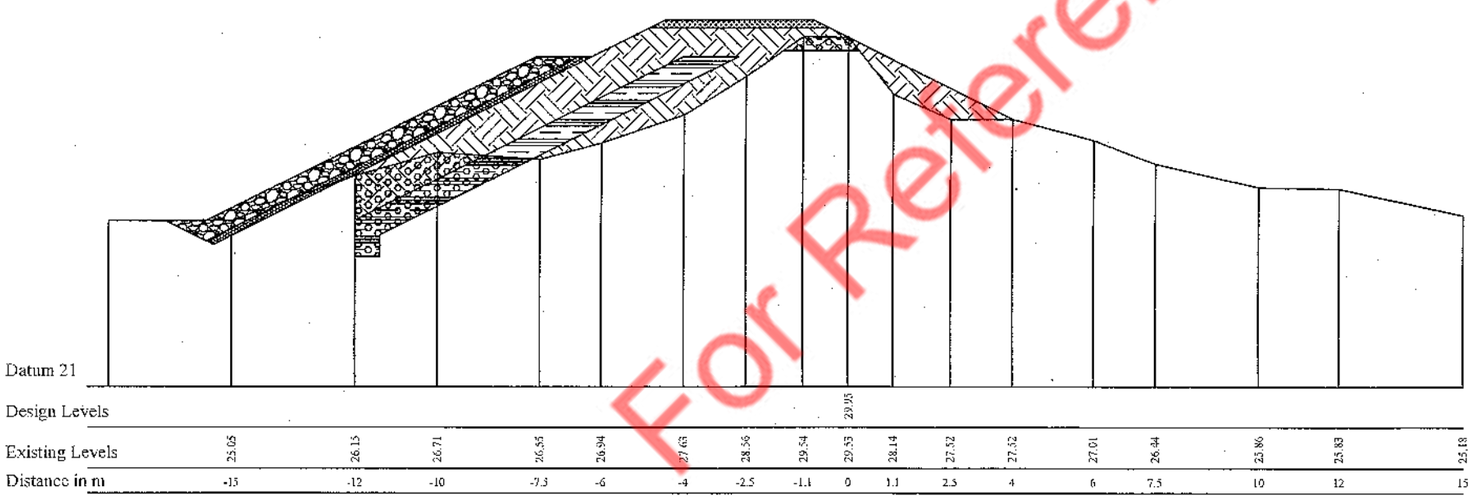
SHEET NO :- 21 of 23

DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-21

IE's OFFICE	LEVELED & CAD T.Pratheep, T.O	CHECKED N.Prasannavathanan,T.O	SUBMITTED Eng.T.Sunoj Irigation Engineer Vavunikulam Division Eng.T.Sunoj, I.E
AE's OFFICE	DRAWN CHECKED A.Ragutheeban, D'man	DESIGN CHECKED I.E	APPROVED Eng.K.Vibirthan, D.O.I



CS at 950 m



CS at 975 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITTIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

Structure :- Improvements to Tank Bund in Mallavikkulam

Location :- (0+950m - 0+975)

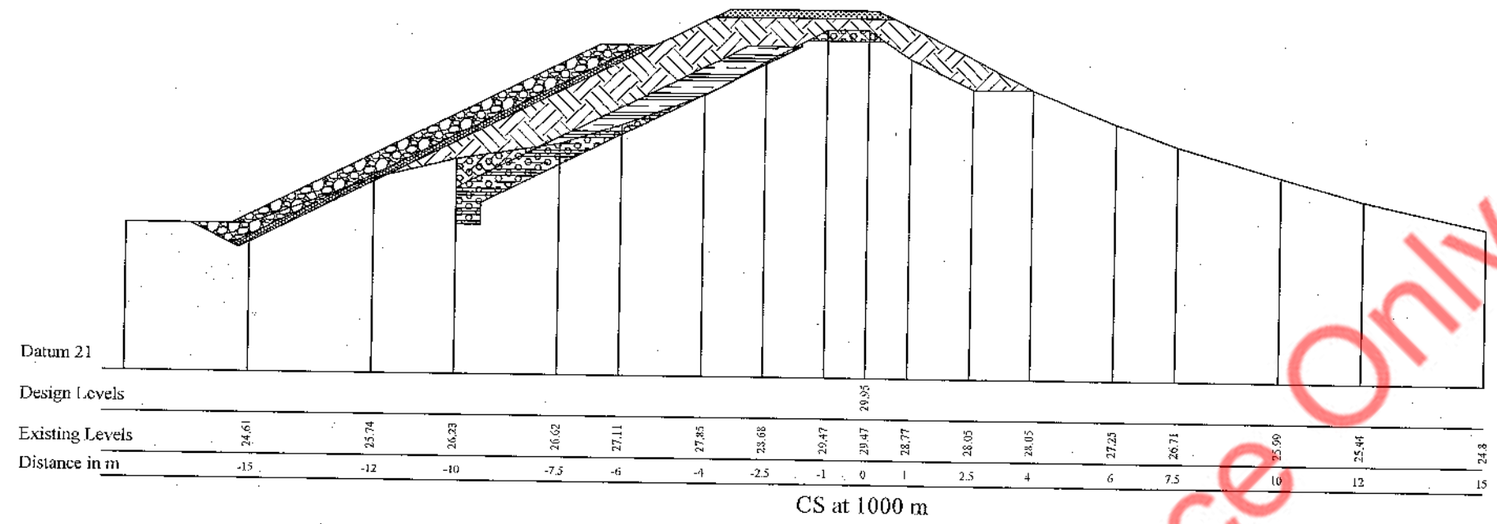
DATE :- | SHEET NO :- 22 of 23 | DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-22

IE's OFFICE

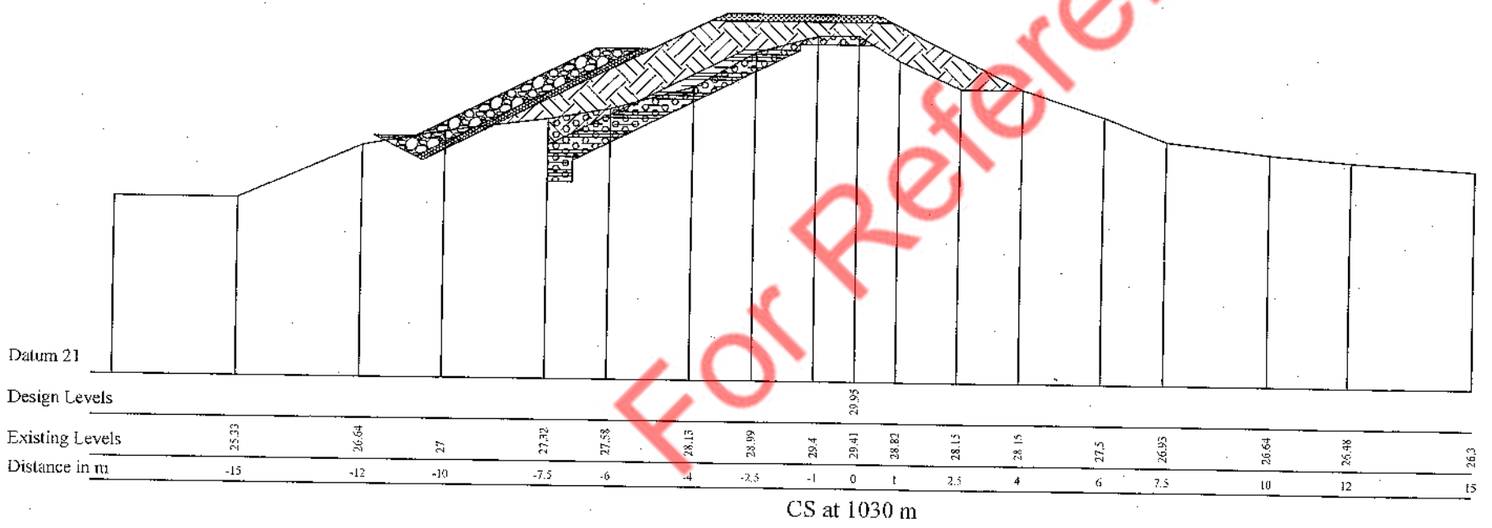
LEVELED & CAD	CHECKED	SUBMITTED
T.Pratheep, T.O	N.Prasannavathanan,T.O	Engr. Suraj Irrigation Engineer Vavunikulam Division

DRE's OFFICE

DRAWN CHECKED	DESIGN CHECKED	APPROVED
A.Ragunas, D'man.	, I.E	Eng. S.Vithirthan, D.D.I



CS at 1000 m



CS at 1030 m

E.C.A :-Earth Cutting Area :

E.F.A :-Earth Filling Area :

G.F.A :-Gravel Filling Area :

C.F.A :-Clay Filling Area :

G.F.uRR :-Gravel Filling under RipRap Area :

R.R.A :-Rip Rap Filling Area :

Tr.L :-Turf Length :

Str.L :-Stripping Length :

All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT

MULLAITIVU RANGE

VAVUNIKULAM DIVISION

IWWRMP – 2024

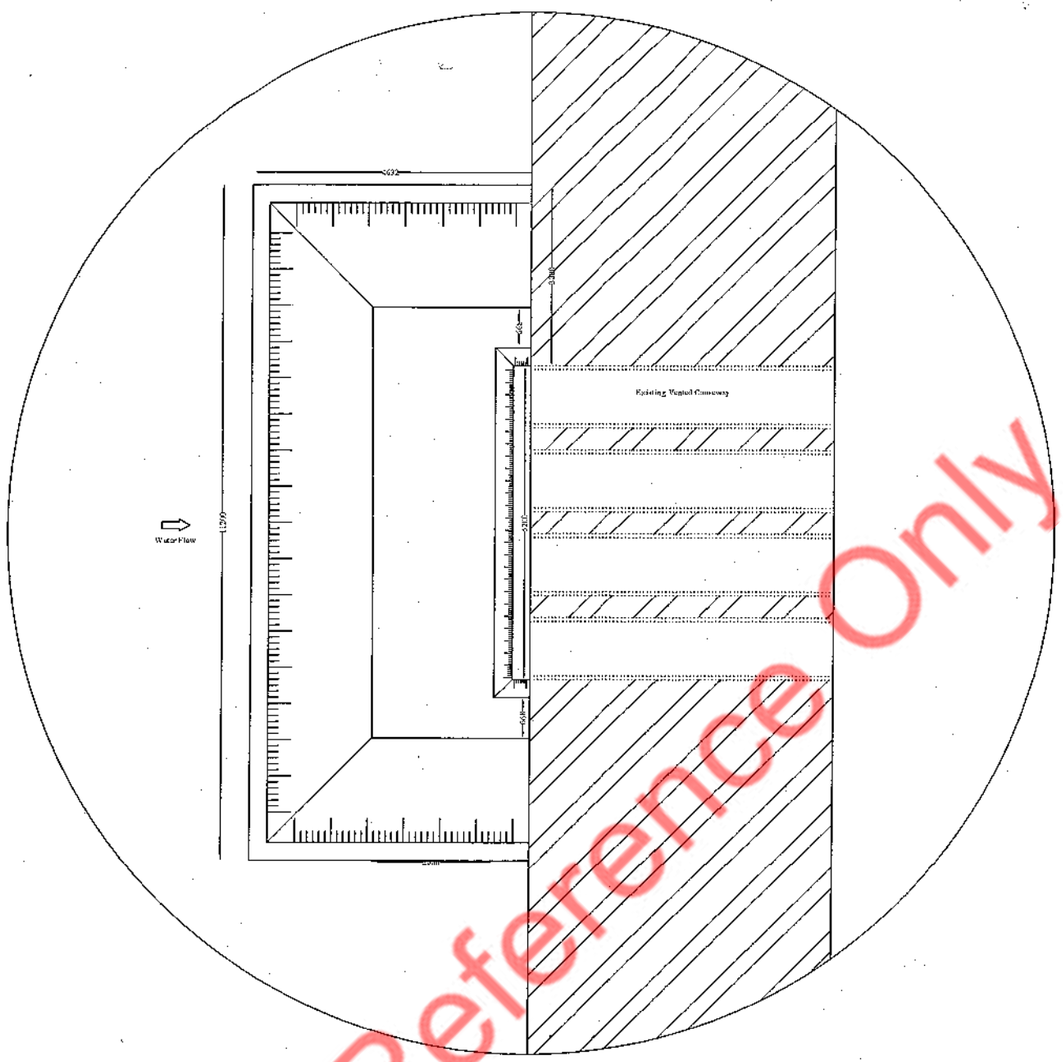
Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024

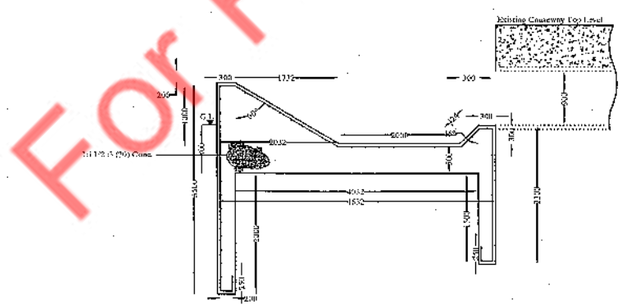
Structure :- Improvements to Tank Bund in Mallavikkulam

Location :- (1+000m - 1+030)

DATE :- | SHEET NO :- 23 of 23 | ORG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/CSS-23

DE's OFFICE	LEVELED & CAD	CHECKED	SUBMITTED
	T.Pratheep, T.O	N.Prasannavathanan,T.O	Eng.K.Sanoj Irrigation Engineer Vavunikkulam Division
ADE's OFFICE	DRAWN CHECKED	DESIGN CHECKED	APPROVED
	A.Ragunan, D'man		





All Dimension are in mm

Not Scale

IRRIGATION DEPARTMENT	**Improvements to Head Works & Downstream of Mallavikkulam in Vavunikkulam Division, Mullaitivu Range under IWWRMP - 2024**		IE's OFFICE	LEVELED & CAD: T.Pratheep, T.O	CHECKED: N.Prasannavathanan,T.O
MULLAITIVU RANGE VAVUNIKULAM DIVISION IWWRMP – 2024	**Structure :- Construction of Drop structure** **Location :- Spill way**		DDI's OFFICE	DRAWN CHECKED: A.Ragunan, D'man.	DESIGN CHECKED: , I.E
	DATE :-	SHEET NO :- DRG.NO:- Mul/VVK/IWWRMP/2024/Mal/Bund/Drop			SUBMITTED: Eng.T.Sunoj, I.E Irrigation Engineer Vavunikulam Division APPROVED: Eng.S.Vimirthan, D.D.I

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 Kumaraswamy 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 '**Rehabilitation of Mallavi Tank**' under Invitation for Bids No. **LK-MoMDE-433771-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 ----------