ORIGINAL/DUPLICATE **SRS/F. 8108**

SRI LANKA RAILWAYS

CONSTRUCTION OF PROPOSED STATION BUILDING AT MAHO JUNCTION

BIDDING DOCUMENT ISSUED UP TO	**- 06.07.2026**
CLOSING /OPENING OF BIDS	**- 07.07.2026**

DOCUMENT NUMBER: ……

ISSUED TO:

M/S.: ……..

ADDRESS:……
……

……

AMOUNT COLLECTED: **Rs.25,000/-**

RECEIPT NO: …….. OF ……

DATE:…….. ……

SIGNATURE OF ISSUING OFFICER

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF TRANSPORT, HIGHWAYS AND URBAN DEVELOPMENT

DEPARTMENT OF SRI LANKA RAILWAYS

CONSTRUCTION OF PROPOSED STATION BUILDING AT MAHO JUNCTION

CONTRACT NO: SRS/F. 8108

BIDDING DOCUMENT

Volume I and Volume II

Employer:
General Manager, Railways,
General Manager's Office,
Sri Lanka Railways,
P.O. Box 355,
Colombo 10.

Engineer:
Chief Engineer (Way & Works),
Chief Engineer's Office,
Sri Lanka Railways,
No. 01, D.R. Wijewardane Mawatha,
Colombo 10.

JUNE 2026

CONSTRUCTION OF PROPOSED STATION BUILDING AT MAHO JUNCTION

BIDDING DOCUMENT

CONTENTS

INVITATION FOR BIDS (IFB)

INVITATION FOR BIDS (IFB)

MINISTRY OF TRANSPORT, HIGHWAYS AND URBAN DEVELOPMENT
DEPARTMENT OF SRI LANKA RAILWAYS

CONSTRUCTION OF PROPOSED STATION BUILDING AT MAHO JUNCTION

CONTRACT NUMBER: SRS/F. 8108

1. The Chairman, Department Procurement Committee on behalf of the General Manager Railways, **Sri Lanka Railways** now invites sealed bids from eligible and qualified bidders for **Construction of Proposed Station Building at Maho Junction** as described below.

   The Maho Station Building project (1,052 sqm) includes site mobilization, demolition, earthworks, and reinforced concrete construction with masonry. It covers waterproofing, finishes, painting, roofing, and installation of doors and windows. Plumbing, sanitary, and electrical systems are included, along with additional works like staircases, ramps, and station facilities.

2. The Construction period is **300** days.

3. Bidding will be conducted through National Competitive Bidding Procedure.

4. To be eligible for the contract award, the successful bidder shall not have been blacklisted and shall meet the following requirements:

   - Registered with the Construction Industry Development Authority (CIDA) for Building Construction - **Grade C4 or above**
   - The Bidder should possess a valid certificate issued by the Register of Public Contract in accordance with the Section 8 of Public Contracts Act No 3 of 1987.

5. Qualification requirements to qualify for contract award include:

   a) Average Annual volume of construction work performed in last five years shall be not less than Sri Lankan Rupees 195million.
   b) The Bidders net worth in last 5 years shall be positive.
   c) Successful completion as a main contractor of at least two construction projects of similar nature and complexity with a project value at least Sri Lankan Rupees 150 million within 12 months, or a higher valued project completed within a proportionate time period, during last 10 years.
   d) The minimum amount of liquid assets and/or project specific credit facilities exclusive of any advance payments which may be made under this Contract shall be not less than Sri Lankan Rupees 33 million.
   e) The Bidder must demonstrate that he has the qualified personnel as specified in the Bidding Data to perform the Contract.
   f) The Bidder must demonstrate the availability of key equipment listed in the Bidding Data.

6. Interested bidders may obtain further information from **The Deputy Chief Engineer (Building), Chief Engineer's (Way & Works) Office, Sri Lanka Railways, No. 01, D.R.Wijewardane Mawatha, Colombo 10, Tel No. 0112 693 725** and inspect the bidding documents at the address given below on working days from **09.00** hrs to **15.00** hrs from **12.06.2026** to **06.07.2026.**

7. A complete set of Bidding Documents in English language may be purchased by interested bidders on the submission of a written application to **The Deputy General Manager (Procurement), Procurement Sub Department, Sri Lanka Railways, Olcott Mawatha, Colombo 10** from **12.06.2026** until **06.07.2026 (excluding holidays)** from **09.00** hrs to **15.00 hrs** upon payment of a non-refundable fee of **Rs. 25,000.00**. Only cash payment shall be accepted.

8. Bids shall be delivered in duplicate to **The Chairman, Department Procurement Committee (Major), Procurement Sub Department, Sri Lanka Railways, Olcott Mawatha, Colombo 10** on or before **14:00** hrs on **07.07.2026** Late Bids will be rejected. Bids will be opened soon after closing in the presence of the bidders' representatives who choose to attend.

9. Bids shall be valid up to **91 days** from bid opening.

10. All bids shall be accompanied by a Bid-Security of **Sri Lankan Rupees One Million Three Hundred Thousand (Rs.1,300,000.00)**. The Bid Security shall be valid up to **119 days** from bid opening.

11. **Pre-Bid Meeting** is scheduled to be held at 10.00 a.m. hrs on **22.06.2026** at the **Office of the Deputy General Manager (Procurement), Olcott Mawatha, Colombo 10**The bidder is requested, as far as possible, to submit any question in writing or by email to reach the Chairman, Department Procurement Committee before the pre-bid meeting.

The Chairman,
Department Procurement Committee,
Sri Lanka Railways,
Colombo 10.

VOLUME 1

- **SECTION 1 – INSTRUCTIONS TO BIDDERS**
  Instructions to Bidders shall be read in conjunction with Bidding Data under Section 2 (Volume 2).

- **SECTION 3 – CONDITIONS OF CONTRACT**
  Conditions of Contract shall be read in Conjunction with Contract Data under Section 4 (Volume 2).

- **SECTION 5– CONDITIONS STANDARD FORMS (CONTRACT)**

Volume 1 comprises Section 1, 3 and 5 of the Standard Bidding Document for the Procurement of works published by the Institute for Construction Training and Development, "Savsiripaya", 123, Wijerama Mawatha, Colombo07. (Publication No. CIDA/SBD/02 Second Edition – January 2007 and Addendum 01 issued in October 2009).

Section 1 and Section 3 will **not** be issued with the Bidding Document and Bidder is advised to purchase it from the Construction Industry Development Authority (CIDA).

Section 5 – Standard Forms (Contract)

- Letter of Acceptance
- Agreement
- Performance Security
- Advance Payment Security
- Non-collusion 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 33 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 ---------- *[name of the Contract and identification number]* for the Initial Contract price of Rupees---------- ---------- ----------[*amount in figures and words]* as corrected in accordance with Instructions to Bidders and / or modified by a Memorandum of Understanding, is hereby accepted.

The adjudicator shall be ---------- *[name and address of the Adjudicator, if agreed]* / shall be appointed by the Institute for Construction Training and Development (ICTAD)**.**

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

The Start Date shall be: ---------- *(fill the date as per Conditions of Contract).*

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

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

Authorized Signature : ----------

Name and title of Signatory *:* ----------

Name of Agency : ----------

STANDARD FORM: AGREEMENT

This AGREEMENT, made the ----------*[day]* day of ----------*[month]* 20-------- *[year]* between ----------*[name and address of Employer]* (hereinafter called "the Employer") of the one part, and ---------- *[name and address of Contractor]* (hereinafter called "the Contractor") of the other part.

WHEREAS the Employer desires that the Contractor execute ----------*[name and identification number of Contract]* (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.

2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, 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 execution and completion of the Works and the remedying of defects wherein 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 thereto 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. ---------- *[reference number of the contract]* dated ---------- with you, for the ---------- *[insert "construction"]* of ---------- ---------- *[name of contract and brief description of* Works*]* (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 intended completion date of the contract]*** and any demand for payment under it must be received by us at this office on or before that date.

_____

[signature(s)]

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. ---------- *[reference number of the contract]* dated ---------- with you, for the ---------- *construction* of ---------- ---------- *[name of contract and brief description]* (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 Intended Completion Date]*

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

_____

[signature(s)]

Non-collusion Declaration

I, the undersigned bidder/ bidder's representative/ bidder's agent, honestly, truthfully and solemnly declare that;

(a) I, nor any other member, agent or representative of the firm/ company/ corporation/ partnership/ sole proprietorship that I represent, have entered into any combination, collusion or similar agreement with any person in connection with the prices to be submitted by any person with respect to the invitation for bid;

(b) I, nor any person who represents me have acted to prevent any person from submitting a bid or to induce any person to refrain from submitting a bid in connection with the intention for bid (Bid No.....);

(c) This bid is not submitted in collusion with any other bid and is not made pursuant to any agreement, understanding or association with any other person in relation to such bid.

I declare that, I have not received and will not accept any discount, fee, reward, commission or anything of value, directly or indirectly, from any person, company or corporation in connection with the submission of this bid.

I further declare that, I have not given and will not give any discount, fee, reward, commission or anything of value, directly or indirectly, to any person, company or corporation in connection with the submission of this bid.

I, taking full responsibility for ensuring the absence of collusion, hereby pledge to abide by fair and ethical competitive practices throughout the entire procurement process and to fully comply with the relevant Procurement Guidelines issued by the National Procurement Commission.

I hereby declare that all the statements made by me above are true and correct.

……

Signature of the Declarant

VOLUME 2

SECTION 2 - BIDDING DATA

SECTION 4 - CONTRACT DATA

SECTION 6 - SPECIFICATIONS

SECTION 7 - FORM OF BID

SECTION 8 - BILL OF QUANTITIES*(Bound Seperately)*

SECTION 9 - SCHEDULES

SECTION 10 - DRAWINGS *(Bound Seperately)*

SECTION 11 - STANDARD FORMS (BID)

SECTION 2 - BIDDING DATA

Note:

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

SECTION 2 - BIDDING DATA

This Section shall be read in conjunction with Section I - Instructions to Bidders and is intended to provide specific information in relation to corresponding Clauses in Section I.

Whenever there is a discrepancy, the provisions in Section 2 - Bidding Data shall supersede those provided in the Section I - Instructions to Bidders.

Instructions to Bidders

Clause Reference

1.1.1 Employer's Name and Address

Name : **The General Manager, Sri Lanka Railways**

Address : **General Manager's Office**
Sri Lanka Railways
P.O. Box 355
Colombo 10

1.1.2 Scope of Works

The Maho Station Building project includes site mobilization, demolition, earthworks, and reinforced concrete construction with masonry. It covers waterproofing, finishes, painting, roofing, and installation of doors and windows. Plumbing, sanitary, and electrical systems are included, along with additional works like staircases, ramps, and station facilities.

The project involves the construction of a two-Story building for station building, with an approximate floor area of 1,052 sqm (11,324 sq.ft). The ground floor will include waiting areas, office rooms, a canteen, and washroom facilities. The second floor will consist of rest room and additional office spaces.

1.2 Time for Completion

The Time for Completion for the whole of works shall be 300 days.

2.1 Source of Funds

The source of funds is **Government of Sri Lanka**.

4.1 Qualification Information

The following information shall be provided in Section 9 - Schedules:

4.1 (a) Organizational details pertaining to:

i. Legal status (Sole proprietor, Partnership, Company etc.)

ii. Place of registration

iii. Principal place of business

iv. Written power of attorney for authentication for signatory of the Bid to commit the bidder.

v. Valid certificate issued by the Register of Public Contract in accordance with the Section 8 of Public Contracts Act No 03 of 1987.

4.1 (c) Following information and documents shall be included as a minimum with the Bids in Section 9 – Schedules;

i. CIDA Registration
   - Registration number
   - Grade
   - Specialty
   - Expiry Date

ii. Audited financial statements for last 5 years;

iii. VAT Registration number;

iv. NCASL Registration number and expiry date;

v. Evidence of adequacy of working capital for this Contract (access to lines of credit and availability of other financial resources);

vi. Total monetary value of construction work performed for each of the last five years;

vii. Experience in works of a similar nature and size in last ten years and details of work under way or contractually committed;

viii. Major items of construction equipment proposed to carry out the Contract;

ix. Qualification and experience of key site management and technical personal proposed for the Contract;

x. Proposed Construction Programme.

xi. Proposals for subcontracting components of the Works amounting to more than 10% of the Contract Amount;

If any specialized sub-contractor is proposed by the Bidder, Bidder is required to provide all above information of the specialized sub-contractor and need to confirm that same specialized sub-contractor will be engaged if the Contract is awarded.

xii. Any other supporting documents to substantiate the requirements

4.2 (a) **CIDA Registration required**

Specialty and Grade : Building construction C4 or above.

Updated details of CIDA registration shall be submitted.

4.2 (b) Average annual volume of construction works performed in last five years shall be not less than Sri Lankan Rupees 195 million. Bidders net worth during last 5 years shall be positive.

4.2 (c) Experience as prime contractor in the construction of at least two projects of a nature and complexity similar to the Works with a project value of at least Rs.130 million completed within 12 months, or a higher valued project completed within a proportionate time period, completed during last 10 years.

To comply with this requirement, works cited should be at least 70% completed.

Documentary evidence obtained from the Client/Consultant shall be attached as proof for above.

4.2 (d) Submit Proposal for the timely acquisition (own, lease, hire, etc.) of the following essential plant / equipment which shall be made available exclusively for the project.

i. Backhoe Loaders
ii. Concrete Mixers
iii. Concrete Vibrators
iv. Tractors
v. Vibratory Rollers
vi. List any other

4.2 (e) Qualification and Experience of Staff – CVs and certified copies of certificates to be attached.

Qualification and Experience of Key Personnel	**Minimum no of Staff required for the Project**
Construction Management	
1. Project Manager - Chartered Civil Engineer with 10 years experience after graduation with experience of Roads and Bridges construction	1 (Part time basis)
2. Site Engineer - Qualified with B.Sc (Civil) with 3 years experience or NDT (Civil) or equivalent with 5 years experience	1 (full time basis)
3. Quantity Surveyor - NCT (QS) or equivalent with 3 years experience	1 (Part time basis)
Supervision	
4. Technical Officer – Qualified with NCT (Civil) or equivalent with 05 years experience	1 (full time basis)

4.2 (f) Liquid assets and/or credit facilities required:

The minimum amount of liquid assets and/or credit facilities, net of bidder's other contractual commitments and contractual advance payments, shall be not less than **Sri Lanka Rupees 33 million.**

Any Bidder who does not have the minimum amount of liquid assets and/or credit facilities, shall be treated as non-responsive.

The Bidder shall submit **project specific** revolving line of credit, to meet the requirement strictly according to the form "The Letter from the Bank for Granting of a Revolving Line of Credit" enclosed under the Section 9-Schedules.

Forms for the "Affidavit for current commitments" enclosed under the Section 9-Schedules.

4.2 (g) The Bidder shall not be a backlisted contractor at the time of bidding and at the time of award of contract.

Add new Sub clauses 4.2h – 4.2k after Sub Clause 4.2g and extend to read as follows:

Following additional qualification also considered as the qualification criteria;

4.2 (h) The Bidders shall demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

4.2. (i) Even though the bidder meets the above qualifying criteria, they are subject to be disqualified if they are discovered to have submitted misleading or false documentation in proof of the qualification requirements.

4.2. (j) Non submission or partial submission of the documents listed above shall lead to rejection of the Bid.

5. Joint Ventures

Not Applicable

9. Content of Bidding Document

The entire text of Clause 9 of ITB shall be replaced with the following:

The bidding documents, consisting of two volumes are those stated below and shall be read in conjunction with the addenda, if any, issued as per Clause 11:

Invitation for Bids

Volume 1

Section 1	-	Instructions to Bidders
Section 3	-	Conditions of Contract
Section 5	-	Standard Forms (Contract)

Volume 2

Section 2	-	Bidding Data
Section 4	-	Contract Data
Section 6	-	Specifications
Section 7	-	Form of Bid
Section 8	-	Pricing Preambles & Bills of Quantities ***(Bound Seperately)***
Section 9	-	Schedules
Section 10	-	Drawings ***(Bound Seperately)***
Section 11	-	Standard Forms (Bid)

10.1 Clarification of Bidding Documents

Address for clarification of bidding documents is:
Name & Address of Employer:

Name – Chief Engineer (Way and Works)
Address - Chief Engineer's (Way & Works) office,
Sri Lanka Railways,
No.01, D.R. Wijewardana Mawatha,
Colombo 10
Tel. No. 011 2687318

14.3 Sub-clause 14.3 shall be read in conjunction with the following:
"VAT component shall not be included in the rates and prices for all items of the Works described in the Bills of Quantities. The amount written in the Form of Bid shall be excluding VAT.

If the bidder is registered for the purpose of VAT, the bidder shall indicate the amount of VAT claimed separately at the end of the Bills of Quantities, in addition to the net value of bid, along with VAT registration number. The amount written on the Form of Bid shall be excluding VAT."

Social Security Contribution Levy (**SSCL**) component shall be included in the rates and prices for all items of the Works described in the Bills of Quantities and shall not be paid separately.

14.4 **Adjustments for change in cost**

The Contract is subjected to price adjustment.

16.1 **Period of Bid Validity**

The Bid shall be valid up to …XX.XX.2026…..(91 Days) from the closing date of the Bid

17.1 **Amount of Bid Security**

The amount of Bid Security shall be Sri Lankan Rupees 1,300,000.00 (1.3 Mn rupees).
Bid Security shall be issued by a reputed commercial bank operating in Sri Lanka approved by the Central Bank of Sri Lanka, using the form for Bid Security (Unconditional and on- demand Guarantee) included in section 11, Standard Forms (Bid)

17.2 **Validity of Bid Security**

The Bid Security shall be valid up to …..XX.XX.2026……(28 Days beyond the Bid Validity date.)

Issued by a commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka

Bid Security should Address
General Manager Railways,
General Manager's Office,
Sri Lanka Railways,
P.O.Box 355,
Colombo 10

19.1 **Pre-Bid Meeting**

Venue, Time and Date of the pre-bid meeting will be:

Venue:	Office of the Deputy General Manager (Procurement), Olcott Mawatha, Colombo 10
Date:	22.06.2026.
Time:	10.00 a.m

Site Visit will be on ……

21.2(a) **Employer's Address for Bid Submission**

Employer's address for the purpose of bid submission is;

Chairman
Department Procurement Committee,
Deputy Genaral Manager (Procurement) Office,
Sri Lanka Railways,
Olcott Mawatha,
Colombo 10.

21.2(b) **Identification Number of Contract**

Identification Number of the Contract is SRS/F. ……

22.1 **Deadline for Submission of Bids**

Deadline for submission of Bids is 14:00 hrs on ……

25.1 **Bid Opening**

Venue, Time and Date of Bid opening will be:
Venue:

Deputy Genaral Manager (Procurement) Office,
Sri Lanka Railways,
Olcott Mawatha,
Colombo 10.

Time and Date of Bid Opening: at 1400 hrs on …….

35.1 **Amount of Performance Security**

The amount of Performance Security is five percent (5%) of the Initial Contract Price.

The Standard Form of Performance Security shall be a Guarantee from a reputed Bank operating in Sri Lanka acceptable to the Employer. The Performance Security shall be encashable on first written demand by the Employer and shall be valid until 56 Days beyond the date of expiry of the Defects Notification Period.

36.1 **Advance Payment & Security**

The amount of Mobilization advance Security is Twenty Percent (20%) of the Initial Contract Price excluding Provisional Sums & Contingencies.

50% of the total Advance Payment shall be paid within 14 Days from receipt of both Performance Security and Advance Payment Guarantee as required under Clauses 4.2 and 14.2 of the Conditions of Contract.

Balance 50% within 14 Days of Contractor submitting adequate documentary evidence on utilization of the first installment of the Advance Payment with the certification by the Engineer.

37.0 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 4 - CONTRACT DATA

Note:

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 I- Conditions of Contract

SECTION 4 -CONTRACT DATA

Conditions of Contract Clause Number/s		
1.1.2.2 & 1.3	**Employer's Name and Address**	Name : General Manager Railways Address : General Manager's Office, P.O Box 355, Sri Lanka Railways, Colombo 10.
1.1.2.4 & 1.3	**Engineer's name and Address**	Name : Chief Engineer (Way & Works) Address : Chief Engineer (Way & Works) office, Sri Lanka Railways, No.01, D.R. Wijewardana Mawatha, Colombo 10.
1.1.3.2	**Commencement Date of the Works**	The Commencement date shall be within 14 days after the Contractor receives the Letter of Acceptance
1.1.3.3	**Time for Completion of the Works**	Time for completion is 300 Days.
1.1.3.7	**Defects Notification Period**	Defects Notification Period is 365 Days.
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 General Conditions of Contract. (a). A variation order where the total value of any such single variation exceeds Rs.1,000,000.00 and aggregate value of variations exceeds Rs.22,600,000.00 under Sub Clause 13.1 (a) When granting approval for Extension of Time for Completion and for approving Contractor's Claims under Sub Clause 19.1 (b) Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property he may without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such Work or to do all such thing as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.

4.2 **Amount of Performance Security**

5% of the Initial Contract Price. The Performance Security shall be a Guarantee from a reputed commercial Bank operating in Sri Lanka acceptable to the Employer. The Performance Security shall be encashable on first written demand by the Employer, issued in favour of the General Manager Railways, Sri Lanka Railways and shall be valid until 56 Days beyond the date of expiry of the Defects Notification Period.

6.7 **Contractors' Superintendence**

Add the following new Clauses at the end of last paragraph of Sub Clause 6.7:

Following Technical and Managerial staff are compulsory to be employed at Site as Contractor's personnel for the project:

Qualification and Experience of Key Personnel	**Minimum no of Staff required**
Professional and Other Technical Staff	
1. Project Manager - Chartered Civil Engineer with 10 years experience after graduation with experience of Roads and Bridges construction	1 (Part time basis)
2. Site Engineer - Qualified with B.Sc (Civil) with 3 years experience or NDT (Civil) or equivalent with 5 years experience	1 (full time basis)
3. Quantity Surveyor - NCT (QS) or equivalent with 3 years experience	1 (Part time basis)
Supervisory Staff	
4. Technical officer – Qualified with NCT (Civil) or equivalent with 05 years experience	1(full time basis)

If the Contractor fails to employ such personnel with specified experience as specified under this clause, amounts in bill of quantities for each month will be deducted from the payments due to the Contractor with respect to each category of personnel as shown in the bill of quantities.

7.2 **Inspection**

Contractor shall provide all facilities to Employer/Engineer's staff to inspect the fabrication of any items off site (yards or workshops).

8.3 **Programme**

Add Sub Clause 8.3.1 at the end of Sub Clause 8.3

8.3.1

In the event of failure to submit a Work Programme or failure to update the Work Programme by the Contractor, the Engineer shall withhold 1% of the Initial Contract Price from the payments due to the Contractor in IPCs.

8.4	**Extension of Time for Completion**	**Following paragraph after sub clause "e"**: Exceptionally, adverse climatic conditions mentioned in Sub Clause 8.4(c) shall be exclusively where, i.) The months for which the average rainfall received exceeds average value of the monthly rainfall for that calendar month for that station, as calculated using the 10 years rainfall records of 'Katukurunda weather station, are categorized as 'exceptional'. The days of 'heavy rain' recorded in that particular month which are indentified as 'exceptional' are considered as the number of days affected for progress of Work due to heavy rain, as determined by the Engineer taking into consideration the actual disruption caused to site activities due to such rain. or Any other unexpected exceptionally adverse climatic conditions accepted by the Engineer and the Employer. ii.) and the Work shall have been planned to progress at Site on that day. For any delay caused by exceptionally adverse climatic conditions which are determined above, the Contractor is only entiled to 'Extension of Time' and the Contractor is not entitled for any additional cost for that extended Contract period.
8.7	**Liquidated Damages for the Works**	**Rs.65,000.00** per Day
8.7	**Maximum Amount of Liquidated Damages**	Ten percent (10%) of the Initial Contract Price
12.2(b)	**Method of Measurement**	The Works as executed will be measured for payment in accordance with the method adopted in the Bill of Quantities/Preambles and under the item as therein set forth. The principles as given in the Civil Engineering Standard Method of Measurement (CESMM3) shall be referred as applicable.
12.3	**Evaluation Work**	Add following paragraph to the end of first paragraphs: The Contractor shall submit to the Engineer detailed break downs of his BOQ rates whenever requested by the Engineer.

		Add the following sentence at the end of penultimate paragraph of Sub Clause 12.3 The applicable maximum Overhead and Profit percentage shall be 16% over direct cost of executing the work.
13.4 (b)	**Percentage for Adjustment of Provisional Sums**	Delete Sub – Clause 13.4 (b) (ii) and insert the following: A sum for provision of General Attendance to Nominated Sub Contractors including any overhead charges and profit for provision of such attendance shall be calculated as a percentage of the actual amounts by applying the relevant percentage rate in the Bills of Quantities. In any case, the ceiling limit for such Attendance Fee shall be 8%. The Contractor shall when, requested by the Engineer, produce quotations, invoices, payment receipts in substantiation of actual amounts.
13.7	**Adjustments for Changes in Cost**	The Contract Price is subjected to price adjustment. The Contract Price is subjected to price adjustment Weightings of Inputs Indices No. Input Name Input Percentage **Please refer Schedule 10 under Section10.** **Nonadjustable element shall be** All items in Bill No.A: Preliminaries and Provisional Sums(boq Items No. B1, K1,L1,M14 &M15
14.2	**Total Advance Payment**	Twenty percent (20 %) of the Initial Contract Price excluding Provisional Sums and Contingencies. The Advance Payment Guarantee acceptable to the Employer shall be that from a reputed Bank operating in Sri Lanka and shall be encashable on demand by the Employer.
14.3 (c)	**Percentage of Retention**	Ten percent (10%)
14.3 (c)	**Limit of Retention Money**	Five percent (5%) of the Initial Contract Price

14.5	**Minimum Amount of Interim Payment Certificates**	Sri Lanka Rupees 10 million.
14.8	**Alternative Method for Payment of Retention**	Not Applicable
15.2	**Termination by Employer**	Add the following new paragraph as Sub Clause 15.2 (h)15.2.(h) Notwithstanding any clause contrary to this, if the Liquidated Damages reaches to its maximum amount given in the Contract Data, the Employer is entitled to terminate the Contract without further notice to the Contractor.
18.1	**Insurance for Works and Contractor's Equipment**	The maximum deductible for insurance of the Works, Plant and Material is 5% of each and every Claim. The maximum deductible for insurance of Equipment is 10% of the Claim. The minimum cover for loss or damage to Equipment is the replacement value of Equipment. Any deductible higher than the percentages stated above shall be borne by the Contractor.
18.2	**Third party Insurance**	The amount of insurance per occurrence is as follows and number of occurrences are unlimited: Rupees 1,000.000.00 per person per event Rupees 10,000.000.00 for other property, per event The maximum deductible for the insurance of other property is 1% of the loss of the damage. Higher amount of deductibles shall be borne by the Contractor. Insurance cover shall be issued by a reputed insurance company operating in Sri Lanka, acceptable to the Employer, in acceptable form to the Employer. Add the following paragraph under Sub-Clause 18.2The Contractor shall insure against damage to adjacent structures, any existing overhead and/or underground services that may cause damages as a result of piling work.

18.3 Insurance for Contractor's Personnel

Insurance for Contractor's Personnel

Add the following text to the end of the last paragraph.

The Contractor's workmen shall be insured in Compliance with the prevailing Workmen Compensation Act of Sri Lanka. The minimum insurance cover amounts shall be as per the values stipulated under this Act.

The Employer and staff of Employer, Engineer and staff of Engineer and any other persons engaged by the Employer and Engineer shall be covered under a Personal Accident Insurance Cover. The minimum cover of such insurance shall be at least Rs. 5,000,000.00 in one event of personal injury or death of such person. Numbers of occurrences of such events is unlimited.

PARTICULAR SPECIFICATIONS

1. GENERAL REQUIREMENTS

1.0 GENERAL

This specification shall be read in conjunction with the other documents which form the Contract Agreement for the Works. Notwithstanding the subdivision of the specification under different headings each and every part of it shall be deemed supplementary to and complementary every other part thereof.

All materials and workmanship shall be in accordance with the appropriate current Sri Lankan Standards or where such standards are not available the relevant British Standards shall be applicable. Where such standards are in conflict with this specification the interpretation in accordance to this specification shall prevail.

1.1 Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Engineer's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Engineer at least 14 days prior to the date when the Contractor desires the Engineer's consent. In the event the Engineer determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

1.2 Definitions

In this specification the terms 'approved', 'approval' and 'required' mean 'approved by the Engineer', 'approval of the Engineer' and 'required by the Engineer' respectively.

1.3 Scope of Work

The Maho Station Building project (1,052 sqm) includes site mobilization, demolition, earthworks, and reinforced concrete construction with masonry. It covers waterproofing, finishes, painting, roofing, and installation of doors and windows. Plumbing, sanitary, and electrical systems are included, along with additional works like staircases, ramps, and station facilities.

The works to be executed under this Contract comprise the following.

(a) The provision at site of all necessary labor, materials plant & equipment, tools instruments etc. together with personnel of all types of skills for the mobilization execution with supervision demobilization and removal of plant tools etc. and other resources provided by the Contractor there from.

(b) The execution of all necessary surveys for the setting out of building and for required completion of works.

(c) The maintenance of proper site records, preparation and submission of calculations. Drawings progress reports etc. to the Engineer as required under this Contract Agreement.

(d) Complete the construction works including all temporary works in accordance to the requirements under this Contract Agreement and as required by the Engineer.

(e) The testing of required tests in accordance to the specifications therein and as directed by the Engineer.

(f) All other works associated with the above for the completion of the Works as specified in contract.

1.4 Site Security

The Contractor shall provide all necessary fencing, hoardings, watching and lighting for the security of site and safeguarding the Works. The shelters, guard house and other facilities to be provided for the watchmen to do their duty in an efficient manner. Altering, shifting and adapting same from time to time shall also be the responsibilities of the Contractor. All costs in connection with this shall be borne by the Contractor.

1.4.1 Contractor should ensure maintaining of healthy environment within the site.

1.5 Advertisement

The Contractor shall allow no advertisement to be placed on any hoarding, scaffolding or fencing erected in connection with the Works without the permission of the Engineer.

1.6 Temporary Works

The Contractor shall submit to the Engineer details, particulars, drawings etc., of all temporary works necessary for the Works for latter's information. The Engineer reserves the right to call for technical justification of the Contractor's proposals and to order any necessary modifications. But the Contractor shall be solely responsible for the stability and safety of all temporary works and for the quality of the permanent works resulting from the Temporary Works eventually adopted.

1.7 Programming of the Works

1.7.1 Master Programming and Records

The Contractor shall furnish in duplicate to the Engineer the Programme and particulars called for in Clause 8.3 Conditions of Contract. The Programme shall be in the form of a critical path network with explanatory notes, capable of being monitored and updated continuously during the progress of the Contract. The Programme shall show inter-alia.

- The dates of possession and the completion named.
- The date as determined or proposed for procurement, delivery to site of materials, commencement and completion of erection or installation of work in all trades, and the labour force involved.
- The dates by which the Contractor requires in information from the Engineer.

The critical path network, or other similar network, shall describe major plant allocations and requirements and major site operations.

Each in every two month throughout the construction period the Contractor shall submit to the Engineer further copies of the Programme marked up to show the progress to date, together with any revision of the Programmes. These shall be submitted one week before the site progress meetings.

In the event of the Contractor failing to prepare and complete the Critical Path Network and Works Programme as described above within two weeks of the award of this Contract or such extended time as approved by the Engineer. The Engineer will appoint a Programming Consultant of his choice to assist the Contractor in preparing them and the Contractor will be obliged to settle all payments agreed between the Contractor and the said Programming Consultant.

1.7.2 Daily Returns

The Contractor shall supply by 12 noon on every working day the following daily returns as may be required by the Engineer.

A list of the labour employed on the previous day specifying the number employed in each trade including expatriate labour (summary of labour and Plant required weekly).

Particulars of all materials and goods delivered off-site and on-site.

1.7.3 Progress Report

The Contractor shall submit to the Engineer within 1st week of 2nd month, a Progress Report for the period of previous month which shall include the details given in the clause 4.1 of Conditions of Contract.

1.7.4 Construction Programme and Method of Working

The following shall be considered in preparing the Programme and Master Programme and revisions, high water table shall be considered.

Failure to consider the above implication, which are neither necessarily in the given order of priority, or to be considered as complete, shall not entitle the Contractor to claim for additional time or extra costs whatsoever.

1.8 Temporary Services

The Contractor shall provide and maintain temporary services necessary for the execution of the Works under the Contract shall make applications and install such services in accordance with the regulations and requirements of the relevant authorities.

The Contractor shall be responsible for all costs and charges in connection with the installation, alteration, shifting, adopting use and maintenance of such services. On completion of the Works, the Contractor shall disconnect such service, which are no longer required by him and or the Employer and clear away all traces.

(a) Power

The Contractor shall apply and pay for the required power and install temporary electrical installation for the Works, Site Office, Engineer's and Consultants Offices, Stores, Labour Huts, Yards and Site lighting and testing for mechanical and electrical services done by others.

A stand-by generator, with adequate capacity should be made available by the Contractor at the site for use in an emergency, if any intention to work during night time and or during power failures. The cost of supplying, installing, running and maintaining of the stand-by generator shall be borne by the Contractor.

(b) Water

The Contractor shall apply and pay for the continuation of temporary water supply connection to the site and construct storage tanks with adequate capacity, together with the necessary internal temporary PVC distribution system including an overhead tank at an adequate elevation, water pumps as may be required and providing taps, valves, etc. in order to provide water for the Works, for drinking purposes, and also for washing, bathing and sanitary facilities required by the Contractor's workmen, the Employer, the Engineer's staff.

Water Bowsers with adequate capacity should be made available in order to bring water to the site from outside and to pump into the storage tanks in an emergency and/or during water cuts and all costs in connection therewith shall be borne by the Contractor.

1.9 Equipment

If Engineer needs to set the Telephone calls, Photocopies & Printing of Documents related to contract. The contractor shall provide such services cost should be borne by the contractor.

1.10 Flammable store

All petroleum, explosives and flammable materials shall be stored in fireproof buildings and such precautions taken with regard to sitting and fire risks as the Engineer may direct. The Contractor shall make all arrangements with the licensing authority for the necessary license

1.11 Safety on Site

Safety precautions throughout the construction operations shall comply with all relevant state statute, ordinance, decree, or other law or decree or any regulation or bye law of any local or duly constituted authority applicable within the country at that time.

The Contractor shall provide and maintain the following safety measures in accordance with the regulations and requirements stipulated by the relevant Statutory Authorities.

i. Safe working conditions
ii. Safe means of access and exit
iii. Safety systems for Plant, Machinery and Equipment
iv. Appropriate safety equipment required at the site and yards such as Helmets, Gum Boots, Masks, Welding Masks, Safety Belts, etc. to the workmen and others engaged in the Works.
v. Safety nets, safety canopies, safety signs, handrails, guardrails, platforms and other measures ensuring safety of workmen and others engaged in the Works.
vi. Training, instructions, information and supervision as may be required to enable employees to avoid any potential dangers and hazards.
vii. All measures ensuring the health and workmen including satisfactory welfare facilities, working conditions and environment.

Safety signs should be in the Sinhala, Tamil and English languages.

1.12 Sources of supply

The Contractor shall have obtained from the Engineer approval of sources of supply of his materials and shall not change his sources without prior approval.

All material that shall be rejected shall be promptly removed from site.

1.13 Soil Conditions

1.13.1 Soil investigation reports

Factual information and reports on site investigations for the Works shall be made available to Bidders. However, no responsibility is accepted by the Employer for any opinions or conclusions given in the reports.

Before the start of work the Contractor shall be read a copy of the foregoing information and any further information which may have been obtained.

1.13.2 Unexpected ground conditions

The Contractor shall report immediately to the Engineer any circumstance which indicates that in the Contractor's opinion the ground conditions differ from those expected by him from his interpretation of the site investigation reports.

1.14 Setting out

All the dimensions given in the drawings should be checked at the site by the Contractor prior to commencing all work. In the event of any discrepancies the Contractor shall inform the Engineer and request well in advance and prior to commencing work. Setting out shall be carried out from the main grid lines of the proposed structure. The Contractor shall employ a suitable responsible officer for site setting out works in accordance with the drawings.

The Contractor shall set out and check all column centers and floor levels and carry out such other surveys as may be necessary to establish accurately the placing of forms and all other basic structural works and setting out in both vertical and longitudinal directions. All survey marks and pegs shall be clearly identifiable with accurate records kept onsite by the Contractor that must be related to Bench Marks. In this regard Contractor must maintain accurate survey instruments at the sites at all times for any checking of level that the Engineer or his representative may desire.

1.15 Records

The Contractor shall keep records, in a format approved by the Engineer giving such information that is required by the Engineer. For placing of concrete and shall submit two copies of these records to the Engineer not later than by noon of the next working day after the concreting for placing of borrow material.

1.16 Nuisance and Damage

1.16.1 Noise and disturbance

The Contractor shall carry out the work in such a manner and at such times as to minimize noise and disturbance to adjacent owner tenants, the public, etc.

1.16.2 Damage to adjacent structures and roadways

If during the execution of the work damage is, or is likely to be, caused to existing railways, roadways, mains, services or adjacent structures due to the Contractors operation they shall be made good to the approval of the Engineer or the authorities concerned. All costs in connection therewith shall be borne by the Contractor.

2. SPECIFICATION FOR EARTH FILLING

2.1 Stripping of Top Soil;

Where the existing ground surface is covered with vegetation, top soil or other unsuitable material, it shall be removed together with roots, rubbish or objectionable materials etc. Vegetation or other unsuitable material so removed shall be disposed within 5.0km of the site.

2.2 Borrow Material

Borrow material shall comply with the following specifications:

a) Well graded soil mixture with: gravel and sand – not less than 70% and silt and clay – not more than 30%.

b) Maximum dry density at optimum moisture content (Standard Proctor Density) shall not be less than 1.6 gm/cm^3.

c) The borrow material shall be free of vegetation, roots and such other deleterious material.

d) Borrow material shall be tested for its suitability by a recognized testing organization acceptable to the Engineer.

e) The Contractor shall forward from each borrow pit at different levels, the test results of particle size distribution and Proctor compaction tests by a recognized testing organization to the Engineer for approval.

2.3 Placing of Fill Material

The distribution and gradation of the material throughout the fill shall be carried out as directed by the Engineer, so as to ensure that the fill will be free from lenses, pockets, streaks, or layers of material differing substantially in texture or gradation from the surrounding material. The borrow excavation and placing operation shall be such that the materials when compacted will blend sufficiently to secure the best practicable degree of compaction and stability. Successive loads of material shall be dumped and spread so as to produce the best practicable distribution of material and for this purpose the Engineer may designate the locations in the fill areas where individual loads shall be deposited.

The fill material shall be placed in layers not exceeding 225-mm thickness in loose state. The fill shall be compacted at each lift to not less than 90% of the Standard Proctor Density for the building area and not less than 95% of the Standard Proctor Density for access / internal roads.

The method of compaction shall be approved by the Engineer.

2.4 Moisture Control

The moisture content of the fill material prior to and during compaction shall be maintained and distributed uniformly through each layer. The allowable placement moisture content will be determined by the Contractor on Engineer's approval so that fill placement can be made under optimum moisture content of the fill material.

2.5 Density Control

To determine the dry density requirements of the compacted fill, field and laboratory tests shall be made on samples of compacted material taken on a 10-m grid.

2.6 Method of Measurement

The quantity of fill material shall be determined by measuring the depth by auguring and multiplying by the area each auger hold represents. All such quantities shall be added to determine the total quantity. Interim payments shall be made on quantities estimated by the Engineer.

2.7 General Construction Methods

The Engineer shall have complete control over the excavation, moving, filling and disposition of all material and shall determine the suitability of material to be placed in fill areas. All material determined unsuitable shall be placed in spoil area and / or removed from site as directed by the Engineer.

The Contractor shall inform and satisfy as to the character, quality and distribution of all materials to be excavated filled, spoiled and borrowed.

Should the Contractor through negligence or other fault excavate or fill beyond the designated lines, he shall replace/remove such excavation/fill in an approved manner and conditioned at his own expense.

3. SPECIFICATION FOR CONCRETE

3.1 General

All material shall be in accordance with the standards stated in Clause 1.1 of General information (page 147) in this specification. It is deemed that the Contractor has allowed for all charges for obtaining materials in conformance to these standards in the Bills of Quantities.

3.2 Cement

3.2.1 Type of cement

Cement shall be ordinary Portland(SLS 107) as specified, complying with the relevant local or BS standards. When forwarding his concreting method and programme to the Engineer, the Contractor shall submit for approval the type of cement, other than ordinary Portland cement, where such use is specified the Contractor proposes to use. High alumina cement shall not be used.

3.2.2 Storage of cement

All cement shall be stored in separate containers according to type in substantially built waterproof stores or silos.

3.3 Aggregates

3.3.1 Types of aggregate

Aggregates shall consist of naturally occurring material unless otherwise specified or ordered. The Contractor shall inform the Engineer of the source of supply of the aggregates before the commencement of work and, at the request of the Engineer, provide evidence regarding their properties and consistency.

The content of chloride salt in the aggregate used in steel reinforced concrete work, expressed as the equivalent anhydrous calcium chloride percentage by weight of the cement to be used in the concrete, shall not exceed 1%.

3.3.2 Storage of aggregates

All aggregates brought to the Site shall be free and kept free from deleterious matter. Aggregates of different types and sizes shall be stored separately in different hoppers or different stockpiles.

3.4 Water

3.4.1 Availability

Client will not provide water. If water for the Works is not available from a public supply, approval shall be obtained regarding the source of water.

3.4.2 Tests

When required by the Engineer, the Contractor shall arrange for tests of the water for the works to be carried out in accordance with the relevant local standards or BS 3148 before and during the progress of the work.

3.5 Admixtures

Admixtures may be used if approved and shall be used only when so required.

3.6 Concrete Mixes

3.6.1 Grade designation

Grades of concrete shall be denoted by the characteristic 28 day test cube strength in newtons per square millimeter (N/mm^2).

3.6.2 Mix

Concrete mix shall be in accordance with clause 3.6.3 (designed mix) or clause 3.6.4 (prescribed mix) and of grades 20, 25 or 30 of CP 110 or other grades approved appropriate to the work.

The Contractor shall submit the slump factor he proposes for approval before work commences. Neither trial mixes nor strength tests are required for prescribed mixes.

The concrete shall have sufficient workability to enable it to be placed and compacted by the methods used in.

3.6.3 Designed mix

Where it is required to use a designed mix or its use is specified the Contractor shall be responsible for selecting the mix proportions to achieve the required strength and workability.

The Contractor shall in his design mix meet the requirements for the minimum cement content and other properties the Engineer may require to ensure durability etc.

Complete information on the mix and sources of aggregate for each grade of concrete and the water/cement ratio and the proposed degree of workability shall be approved before work commences.

3.6.4 Prescribed Mix

When a prescribed mix is specified the Engineer will specify the mix proportions and the Contractor shall undertake to provide a properly mixed concrete containing the constituents in the specified proportions.

The information given in Tables 1 & 2 is for preliminary tests in determining the correct proportions of the various constituent materials of the final mix acceptable for concreting. Table 1 is applicable to concrete which can be compacted in position by the use of Poker vibrators or by other approved methods. Table 2, based on the use of gravel aggregates, is applicable to concrete for use, where high workability is essential and where the use of internal vibrators is precluded.

Table 1. Prescribed mixed for Concreting

Concrete Grade	Nominal maximum size of aggregate, mm	40		20	
	Workability	Medium	High	Medium	High
	Slump limits, mm	50-100	100-150	25-75	75-125
20	Cement, kg/m^3	300	320	320	350
	Total aggregate, kg/m^3	1850	1750	1800	1750
	Sand/total aggregate	35%	40%	40%	45%
25	Cement, kg/m^3	340	360	360	390
	Total aggregate, kg/m^3	1800	1750	1750	1700
	Sand/total aggregate :	35%	40%	40%	45%

Note: for use with natural sand as aggregate, if crushed rock type aggregate is used instead of natural sand the amounts given in the above table requires adjustment.

Table 2 : Prescribed mixed for cast in place for structural components using only gravel aggregates of

nominal maximum size 20 mm.

Concrete grade	Nominal maximum size of aggregate, mm	A	B	C
	Slump limits, mm	75-125	100-175	150 or over
20	Cement, kg/m^3	320	350	400
	Total aggregate, kg/m^3	1840	1790	1740
	Sand/total aggregate	32%	35%	35%
25	Cement, kg/m^3	360	400	460
	Total aggregate, kg/m^3	1790	1740	1680
	Sand/total aggregate	32%	35%	35%

3. 6.5 Sulphate attack

For concrete in exposed to sulphate attack the requirements of Building Research Establishment Digest 174 shall be observed.

3. 6.6 Minimum cement content

The cement content in any mix shall be not less than 300 kg/m^3.

Where concrete is to be placed under water, the cement content shall be not less than 400 kg/m^3.

3. 6.7 Maximum cement content

The cement content in any mix shall not exceed 550 kg/m^3.

3.7 Testing works concrete

3.7.1 Sampling

Concrete shall be sampled in accordance with BS 1881.

3.7.2 Workability

The workability of concrete shall be determined by the slump test as described in BS 1881 or by an alternative approved method.

3.7.3 Works cube tests

For each grade of concrete four cubes shall be made from a single batch when required for each 15 m^3 of concrete of part thereof in each day's work. The cubes shall be made, cured and tested in accordance with BS 1881 or as otherwise approved. One shall be tested an age of 7 days and the other three at 28 days. Alternatively cubes may be tested in accordance with an approved accelerated testing regime. The Contractor shall submit certified copies of the results of all tests to the Engineer.

3.7.4 Records of tests

The Contractor shall keep a detailed record of the results of all tests on concrete and concrete materials. Each test shall be clearly identified with the locations to which it relates.

3.8 Batching of Concrete

3.8.1 General

Unless otherwise specified the requirements in clauses 3.9.2, 3.9.3 and 3.9.4 shall be met.

3.8.2 Accuracy of weighing and measuring equipment

The weighing and water-dispensing mechanism shall be maintained at all times to within the limits of accuracy described in BS 1305.

3. 8.3 Tolerance in weights

The weights of the quantities of each size of aggregate and of cement shall be within a tolerance of 2% of the respective weights per batch after due allowance has been made for the presence of free water in the aggregates which shall be determined by the Contractor by an approved method.

3.8.4 Moisture content of aggregates

The moisture content of aggregates shall be measured immediately before mixing and as frequently thereafter as is necessary to maintain consistency of mix

3.9 Mixing concrete

3.9.1 Type of mixer

The mixer shall be of the batch type, unless otherwise approved, and shall have either been manufactured in accordance with BS 1305 or shown by tests in accordance with BS 3963 to have mixing performance within the limits of table 6 of BS 1305.

3.9.2 Tolerance of mixer blades

The mixing blades of pan mixers shall be maintained within the tolerances specified by the manufacturers of the mixers, and the blades shall be replaced when it is no longer possible to maintain the tolerances by adjustment.

3.9.3 Cleaning of mixers

Mixer which has been out of use for more than 30 minutes shall be thoroughly cleaned before another batch of concrete is mixed. Unless otherwise specified by the Engineer, the first batch of concrete through a mixer shall contain the normal batch quantity of cement and sand, but only two thirds of the normal quantity of coarse aggregate. Mixing plant shall be thoroughly cleaned between the mixing of different types of cement.

3.10 Transporting concrete

3.10.1 Method of transporting

The method of transporting concrete shall be submitted for approval. Concrete shall be transported in uncontaminated watertight containers in such a manner that loss of material and segregation are prevented.

3.10.2 Pumping concrete

The use of pumped concrete and the methods employed in its use shall be subject to approval.

3.11 Ready mixed concrete

3.11.1 Conditions for use

Subject to approval the Contractor may use ready-mixed concrete in accordance with BS 1926. Approval shall be obtained for each proposed use of ready-mixed concrete in different sections of the Works and for each different mix, which shall comply with this specification.

3.11.2 Mixing of Concrete

Ready-mix Concrete from a Central Mixing Plants is only permitted. All the details of the Mixing Plant and relevant Test Results should be submitted to the Engineer for the approval.

The Contractor will maintain on site cellular telephone link between site and the Concrete Mixing Plant and record times of Truck Mixer leaving Plant, arriving at the site and the Truck Mixer number. Copies of all records are to be delivered to the Engineer's Representative daily or more frequently, if requested.

3.11.3 Placing of Concrete

At least 24 hours before the Contractor proposes to place concrete in any section of the works, he shall notify the Engineer as to his proposed time of commencing. When the Contractor has completed all preparatory work such as surface preparation, form work, reinforcement, built-in parts etc. he shall request the Engineer for written approval to commence concreting at a particular time not less than 3 hours after until all preliminary work has been checked and written approval given by the Architect.

3.11.4 Curing Concrete

Concrete shall be protected against harmful effects of weather, running water and drying out by one of the following methods appropriated to the particular situation.

A liquid curing compound shall be applied to the concrete surface by a low pressure spray until a continuous visible covering is achieved.

The concrete surface shall be covered with Hessian, sacking, canvas or other absorbent material agreed by the Engineer.

The concrete surface shall be covered with polyethylene sheets; concrete surfaces which have become dry shall be thoroughly wetted before the sheeting is placed.

The minimum curing period shall be seven (07) days.

3.11.5 Mixing plant

Unless otherwise agreed by the Engineer, truck mixer units and their mixing and discharge performance shall comply with the requirements of BS 4251.

3.12 Steel Reinforcement

3.12.1 Condition

All reinforcement shall be as per relevant British Standards having minimum characteristics strength of 460N/mm² for High Yield steel and 250 N/mm² for mild steel with necessary tests as per BS4449 and SLS 375:2009

Steel reinforcement shall be stored in clean conditions. It shall be clean, and free from loose rust and loose mill scale at the time of fixing in position and subsequent concreting.

3.12.2 Grade

The grade of steel shall be as specified in the drawings.

3.12.3 Bending of reinforcement

No reinforcement shall be bent at a temperature lower than 5°C without prior approval. Before bending, reinforcement may be warmed to a temperature not exceeding 100°C. If reinforcement already cast into concrete has to be bent, the internal radius of the bend shall be not less than twice the diameter of bars of mild steel or three times the diameter of bars of high-yield steel.

3.12.4 Placing of reinforcement

Reinforcement bending schedules shall be prepared and produced for Engineers approval by the Contractor. Bending and fixing of bars shall start only after the Contractor has convinced himself that no changes will be made to the concrete structure. Mill certificates of composition and strength of steel and certificate of strength tests on samples of steel purchased for use on this project and tested in an independent approved local laboratory should be furnished.

All intersecting bars shall be tied together with approved wire unless otherwise permitted by the Engineer.

Reinforcement in the form of a mat shall be assembled with additional support, such as benches, necessary to form a rigid mat. Reinforcement shall be placed and maintained in position.

The cover to all reinforcement shall be not less than 25mm thick.

Spacer blocks shall be approved and shall be as small as possible consistent with their purpose. They shall be made with 10 mm maximum aggregate size and shall have a strength not less than that of the concrete to be placed.

3.12.5 Welding of reinforcement

Welded joints and welding procedures shall be carried out in accordance with BS 693 or BS 1856.

4 SPECIFICATION FOR WATER PROOFING

4.0 GENERAL

4.1 Warranty

Insulation, water proofing and tanking shall be applied in accordance with the directions of the manufacturer of the materials and components, and the complete systems shall be fitted in the works by experienced specialist crew.

Notwithstanding maintenance requirements for the works, the Contractor shall warrant the Owner with the assurance of a reputable local insurance company that roofs and tanks shall remain waterproof, vapor proof and damp-proof in respect of workmanship and materials for a minimum period of 10 years calculated from the time that the works are certified as substantially competed.

The form of guarantee offered by the specialist, applicator shall be submitted for the Engineer's approval prior to commencement of waterproofing. This guarantee shall in no way indemnify the Contractor against the improper performance of the waterproofing system.

All structural components that retained or exclude water or any other liquid should be applied with approved water proofing material.

Roof slab should be externally water proofed and insulated by an agent approved by the Consultant.

4.2 Structure

It shall be the Contractor's responsibility to ensure that the specialist applicator takes note of the type of the structure, nature and the location of waterproofing to be applied, including any movement joints provided, when designing his water proofing system.

The laying of a water proofing system on a concrete surface will be taken as signifying the acceptance of the surface, both in terms of surface quality, spacing and arrangement of movement joints and the construction joints by the Contractor and his specialist applicator.

4.3 Application

Where applicable, aprons and other sections for roof/tank penetrations, trims, side laps, bends and corners shall be incorporated, corrected finished and uniformly lined.

Sharp corners are to be filled with screed or other fillets and water proofing should be laid with generous over lap as per manufacturer's instructions.

When water proofing is to be applied on exposed areas, colours have to be approved by the Consultant.

Where finished such as concrete paving or tiles etc. are specified to be laid over water proofing membranes laid on concrete floors, the floor shall be tested for water-tightness prior to laying of these tiles/pavings etc. Sumps, tanks, etc., shall also be tested after the application of water proofing systems. The cost of carrying out these tests including that of blocking any outlets etc. shall be borne by the contractor. Where it is seen that water tightness has not been achieved, the contractor shall take whatever remedial measures as are ordered by the Consultant and the cost of all such measures shall be borne by the Contractor.

4.4 Joints with abutting walls, columns, piping etc.

Joints with abutting structures shall be carried out with materials as specified in the relevant Clause of, other trades, such as weather sealant etc. all as generally shown otherwise in typical details on the drawings.

Special joints, not shown on drawings or particular sections there of requiring special attention, are deemed to be included in the Contractor's Bid and are to be executed in a workman like manner and in consent with and to the satisfaction of the Consultant.

5 SPECIFICATION FOR TIMBER WINDOWS, DOORS

5.1 General

All cutting, notching, drilling, sinking, trimming, framing, jointing, splayed edges & the like including fixing in position complete with all nails, spikes, joints and ends.

b) No application of any description shall be made on any timber unless and until the timber

is approved by the Engineer.

c) All door frames shall be fixed with spur stones at the foot

d) Hold fast 4Nos for each frame

e) All doors & windows frames shall be fixed to block works with MS hold fast as directed.

f) All doors & windows fittings to be approved before fixing.

5.2 Joinery

The joinery work shall be of the workmanship conforming to BS 1186: Part 2.

6 SPECIFICATION FOR TILES

6.0 General

All floor tiles shall be locally produced porcelain/ceramic tiles and shall agree in colour, dimensions, tolerances, finishes, and quality with samples provided by the Engineer. All tiles to be true to shape, uniform in size and colour and free from blemishes.

The recommendations of C.P. 202 and BS 5385: Part 3, shall be complied with, subject to any qualifications here under.

6.1 Preparation

The sub-floors to be cleaned of cement film, mortar spills, paint and other impurities, oil spots to be chiselled. The sub-floor to be well wetted with water.

Everything necessary shall be done to obtain a satisfactory bond between concrete, screeds, beddings and finishes.

The cleaned sub-floor shall be grouted with a 1:1 cement/water mixture by broom application, prior to placing the mortar bed.

6.2 Setting–out

Correct floor levels shall be established and finished levels of tiling controlled by a series of spot levels.

Movement joints in sub floors and screeds shall be carried up into tiling.

Generally the tiles shall be divided symmetrically over the areas, so that pieces smaller than half a tile will not occur; the layout of the tilling and width of joints to be determined with the Engineer.

The tiling to be laid to falls, towards floor gullies as shown on the drawings, and /or in co-ordination with the Engineer.

At joints to walls, skirtings, pits, passages etc., the tiles to be cut, sawn or ground to size.

6.3 Bedding of tiles

Care shall be taken that tiles are well soaked in clean water and are free of dust before laying.

A mortar bed of 1 part cement to 3 parts sand, of thickness as specified in the Bill of Quantity to be spread by means of a float in beds of a width of approx. 700 and allowed to stiffen. Acid proof mortar for acid-proof tiles is to be applied in accordance with the manufacturer's instructions.

The back of the tiles shall be buttered with a coat of cement slurry and the tiles laid with straight joints 3mm wide, on the mortar bed.

Grouting shall take place at any time after tiles are firmly fixed but before any dirt or contamination can enter the joints.

Dampen the joints and grout with cement: fine sand (1:1). Do not use more water than necessary to avoid subsequent joint shrinkage Work the grout well into the joints until flush, and remove surplus grout. At the discretion of the Engineer, tinted grout shall be used. Grouting for acid-proof tiles are to be applied in accordance with manufacturer's instructions.

If a depression or bump in surface level in excess of 6mm in any 2 meter length is found, then the floor shall be taken up and re-laid, at the Contractor's expense, to the satisfaction of the Engineer.

The installed tile work shall give a full sound when tested with hammer.

6.4 Protection

Finished tiled floors are to be completely covered with sheets of hardboard; the walls and skirting to be washed with soap and water, the floor to be similarly treated after removal of temporary floor coverings.

7 SPECIFICATION FOR LOW VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM

7.1 Scope

7.1.1 Scope of Work

The Contractor shall carry out the supply, delivery, erection, connection, testing and commissioning of all the equipment and material for the complete LV Electrical Distribution System of the building. The installation shall include but not necessarily be limited to the following:

(a) Consumer Units
(b) Power cables
(c) Final circuits from consumer units
(d) Lighting system – indoor & outdoor
(e) Small power installation comprising power socket outlets
(f) Ceiling fans and Wall fans
(g) Earthing system
(h) Testing and Commissioning

7.1.2 Power Supply

Main (regular) power supply for the building complex will be taken from the Ceylon Electricity Board (CEB).

7.2 General Requirements

7.2.1 Samples

The contractor shall formally submit samples of materials and items of equipment for approval of the Engineering Consultant before installation.

7.2.2 Experience of Contractor

Work shall be carried out by an experienced electrical contractor who has previous experience in similar projects and shall have necessary tools, equipment and experienced staff for electrical installation and testing.

7.3 Low Voltage Switchgear

7.3.1 Consumer Units

Consumer Unit shall be made of non-breakable plastic and provided with a transparent door.

Consumer Unit shall be in-general flush fronted, suitable for wall recess mounting.

Consumer Unit shall comprise the equipment indicated in the drawings or BOQ together with all terminals, busbars, small wiring, interconnections etc.

7.3.2 Miniature Circuit Breakers

The miniature circuit breakers (MCBs) shall comply with BS 3871 Part I and shall have a Type 2 Classification. The current rating and short-circuit breaking capacity shall be as indicated in the drawings and/or bill of quantities. If the short-circuit breaking capacity is not specifically indicated in the drawings and/or bill of quantities a minimum short circuit rating of 6kA shall apply.

The frame size of all MCBs shall be the same so that they can be easily interchanged.

Circuit breaker dollies shall be of the trip-free pattern to prevent closing the breaker on a faulty circuit and they shall be engraved to indicate the ON/OFF position.

7.3.3 Residual Current Devices

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

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

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

The tripping current shall be 30 mA unless otherwise specified.

7.4 Cables, Cable Trays and Conduits

7.4.1 General

The cables shall be sized to comply with the regulations for Electrical Installations published by the Institution of Electrical Engineers, London, except where specified sizes of cables are shown on the drawings or detailed elsewhere in the Specifications or Schedules.

No cable conductor shall be less than 1.0 mm^2 cross sectional area.

Preferred colour coding shall be as follows:

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

7.4.2 Feeder Cables

Feeder cables from the Main Distribution Board and Distribution boards shall be of Cu/PVC/PVC and shall be of 600/1000 Volt grade complying with BS 5467.

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

7.4.3 Wiring Cables

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

7.4.6 Cables - Installation

Cable routes shall be agreed with the Engineering Consultant.

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

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

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

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

7.4.7 Cable Glands

The cables shall be terminated at the equipment served by a mechanical type, brass cable gland conforming to BS 6121.

7.4.10 PVC Conduits

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

The conduit shall be of sufficiently large section and so arranged with draw-in boxes to allow either an easy draw-in or out of any or all of the cables which must not exceed the number set out in the appropriate table of the I.E.E. Wiring Regulations.

7.4.11 PVC Conduit Boxes

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

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

All boxes shall be provided with tapped brass inserts for fixing the screws and where necessary to comply
with the appropriate clauses of the IEE Wiring Regulations, with brass earthing terminals.
All adaptable boxes and lids of the same size shall be interchangeable.

7.5 Lighting System

7.5.1 General

Luminaires shall be of the types as shown in the drawings and approved by the Project Architect. All the luminaires shall be supplied and installed under the contract.

7.5.2 Fluorescent Luminaires

Fluorescent luminaires shall be suitable for mounting on a suspended ceiling or mounted on the surface of soffit according to the requirement. The housing of the lamp shall be made of zinc coated sheet steel and painted white. The optic shall consist of pre-anodized aluminium reflectors plus a top mirror of the double parabolic type with lamellae.

Each lamp shall be supplied complete with fluorescent tubes, control gear comprising of high frequency electronic ballast and other accessories.

The nominal length and width of the luminaires shall be 600mm and 600mm and/or 1200mm and 300mm.

7.5.3 Fluorescent Tubes

Fluorescent tubes to be provided for the recessed type luminaries shall emit white colour light TL 84 (bright white light) colours which combine well with daylight. Colour temperature shall be around 4000K and the colour rendering index shall be not less than 85.

7.5.4 Lighting Switches

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

The cover plates shall overlap the boxes.

7.6 Wiring of Small Power

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

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

7.6.1 Socket Outlets – Flush Type

Socket outlets shall be switched, 3-pin (phase, neutral & earth), shuttered, flush mounted type rated for 230V complying with relevant BS, as follows.

13A socket outlets to BS 1363,

5A socket outlets to BS 546

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

7.6.2 Ceiling Fans

1400mm ceiling fans shall be 3-blade type, complete with choke type regulator with 5 speed positions conforming to BS 5060 or equivalent. In addition to the regulator there shall be a 10 amp switch to control the fan. Fan hook shall be made with 12mm MS bars, where necessary rate shall include extending the fan rod and painting. Connection to the fan shall be through a ceiling rose or connection bar.

7.7 Installation

7.7.1 Mounting Height and Position

Mounting height is indicated elsewhere, otherwise as indicated by the Project Architect.

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

7.7.3 PVC Conduits

The conduit system shall be a continuous and effective means of protection for the wiring. The conduit shall be laid as far as possible in straight lines.

The conduit is in no part to be under mechanical stress.

Whenever possible, conduits shall be arranged so that the inspection or 'draw-in' points are not required where conduit is sunk in concrete or plaster, ie. Cable to be drawn in only at lighting, switches, plugs or other appliance outlets.

Exposed PVC conduits will not be allowed.

7.8 Testing of Electrical Installation

Testing of entire electrical installation of the building complex shall be carried out by the Contractor. Test report/certificate as required per IEE building wiring regulation and certified by a Chartered Electrical Engineer shall be submitted.

Section 7 - Form of Bid

Form of Bid

Name of Contract:- **Construction of Proposed Station Building at Maho Junction**

To: **General Manager Railways, General Manager's Office, P.O. Box 355, Sri Lanka Railways, Colombo 10.**

Gentleman,

1. Having examined the Standard Bidding Document - Procurement of Works [ICTAD/SBD/01 - 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 .....) excluding VAT 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 16.1…….. (**91 Days)** or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
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 accept / we do not accept the Adjudicator.
7. We understand that you are not bound to accept the lowest or any Bid you may receive.
8. We certify/confirm that we comply with the eligibility requirements as per ITB clause 3 and 4 of the bidding documents.

Dated this ..... day of ..... 20... in the capacity of ..... duly authorized to sign bids for and on behalf of .....

(IN BLOCK CAPITALS)

Signature : .....

Name : ……..

Designation : ……

Address : .....

Witness : .....……

Section 7 - Bill of Quantities

PREAMBLE TO THE BILL OF QUANTITIES

1. The Conditions of Contract, the Specifications are to be read in conjunction with the Bill of Quantities.

2. The cost of complying with all conditions, obligations and liabilities described in the Conditions of Contract and the Specifications and the Bill of Quantities **including all overhead charges, all taxes prevail at the closing date of the bids (Excluding VAT), profit and Preliminaries** and carrying out the work as described shall be deemed to be spread over and included in the prices or sums stated by the Bidder in the Bill of Quantities. VAT should be separately added.

3. If the Bidder failed to price any Items in the Bill of Quantities then the cost of the work under such Item shall be held to be spread over and included in the prices given against other Items of work.

4. When trade names, brand and/or catalogue numbers are referred to, sole preference to any material or equipment is not intended. Any other material or equipment may be used, provided that the characteristics of type, quality, appearance, finish, method of construction and/or performance is equal to or superior than specified.

5. Whenever the method of measurement is not clear from documents available, the principles as given in the Sri Lanka Standard 573, 1982, Method of Measurement of Building Work shall be applicable.

6. All items of work shall comply exactly with the Contract unless otherwise approved by the Engineer and the rates and sums inserted in the Bill of Quantities shall be deemed to apply to the work as specified. If, for his own convenience or reasons of availability, the Contractor proposes and the Engineer approves the use or provision of alternative items, materials or method of working, or equivalent or superior quality to those specified in the Contract, the rates and sums inserted in the Bill of Quantities shall not in any case be increased as a result.

7. Imperial units are used throughout the Bill of Quantities for measurement purposes unless otherwise indicated. Abbreviations used in the Contract are as follows:-

8.

ft	-	Feet
L.ft	-	Linear feet
kg	-	Kilogram
ft^2	-	Square feet
cube	-	Cube

Nr	-	Number
Rs.	-	Rupees
Cts.	-	Cents
P.S.	-	Provisional sum

9. Rates in the Bill of Quantities shall include all necessary materials such as cables, PVC conduits, PVC sunk boxes etc and labour required to complete the electrical installation to good working order.

10. Except where specifically stated, all costs associated with provision of all holes, openings, chases and ducts in other builders' work required for installation and make them good, shall be included in the rates.

11. The wiring installation shall comply with the requirements of IEE Wiring Regulations, latest edition.

12. Testing and commissioning of the installation shall be carried out by the contractor. & Contractor shall submit inspection and testing report certified by a chartered electrical engineer, according to the requirements of the power supply authority.

13. All electrical accessories should comply with relevant BS/IEC standards. For electrical accessories, manufacturer's guarantee should be produced if necessary.

SECTION 9

SCHEDULES

SCHEDULE 9.1 – GENERAL INFORMATION

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)*	
	Legal status		*Provide certified copies and label as attachment to Clause 4.1(a)*
	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		
	Other Details		
	Method Statement	To be attached as annex	
	Completed Technical Schedules		
4.2 (a)	**CIDA Registration**		
	Registration Number		*Provide certified copies and label as attachment to Clause 4.2 (a)*
	Grade		
	Specialty		
	Expiry Date		

SCHEDULE 9.2 – ANNUAL TURN – OVER INFORMATION
(CONSTRUCTION ONLY – LAST TEN YEARS)

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

SCHEDULE 9.3 – ADEQUACY OF WORKING CAPITAL

Source of credit line	**Amount**	**Remarks**
		Provide documentary evidence and label as attachment to Clause 4.2 *Refer attached specimen letter*
Total		

FORM FOR THE LETTER FROM THE BANK FOR GRANTING OF A REVOLVING LINE OF CREDIT

FROM : ……..
……..
……..

TO : General Manager Railways,
General Manager's Office,
P.O Box 355,
Sri Lanka Railways,
Colombo 10.

SUB : Letter from the bank for providing a line of credit in Favour of (1) ……. In case of award to them of works for the Contract of "**Construction of Proposed Station Building at MHO Junction"**

Dear Sir,

We (2) …… bankers of (3) …… hereby agree to grant revolving line of credit for an amount of Sri Lanka Rupees……... for the purpose of the execution of the Contract "Construction of Proposed Station Building at MHO Junction" for Sri Lanka Railways. This revolving line of credit will be maintained until the work is taken over by the Sri Lanka Railways.

……..
Signature of Representative of the Bank

(1) Name of Beneficiary / Bidder
(2) Name of Bank
(3) Name of Beneficiary / Bidder

SCHEDULE 9.4 – CONSTRUCTION EXPERIENCE IN SIMILAR NATURE AND SIZE OF WORK IN LAST TEN YEARS

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

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

SCHEDULE 9.5 – MAJOR ITEMS OF CONSTRUCTION EQUIPMENT PROPOSED

Plant / Machinery	Number of Units	Capacity	Year of Manufacture	Owned/Hired /Leased	Additional Information

SCHEDULE 9.6 – CONSTRUCTION MANAGEMENT STAFF

(a) Professional Staff

Name	Proposed Position	Qualifications	Post Qualification Experience	Engagement with Company (Permanent/Part time)	Proposed Period for this Project

(b) Technical Staff

Name	Proposed Position	Qualifications	Post Qualification Experience	Engagement with Company (Permanent/Part time)	Proposed Period for this Project

SCHEDULE 9.7 – TIME SCHEDULE FOR KEY STAFF

Months (in the from of Bar Chart)															
	Number of Months														
	12														
	11														
	10														
	9														
	8														
	7														
	6														
	5														
	4														
	3														
	2														
	1														
Name	**Position**	**Activities**													

SCHEDULE 9.8 – WORK PROGRAMME

Construction Activity	(1st,2nd ,..etc are months from the Start Date)															
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th				

SCHEDULE 9.9 - INPUT PERCENTAGES

Indices Ref.	Input Name	Input Percentage
M3	Cement	6.20%
M5	Cement Blocks	1.20%
M6	Rubble	0.60%
M7	Metal	2.10%
M8	Sand	3.50%
M13	Reinforcement Steel	6.30%
M14	Structural Steel	5.70%
M17	Asbestos Ceiling Sheet	5.50%
M18	Sanitary Ware (Local)	3.00%
M20	PVC Pipes	2.90%
M21A	Formwork (Plywood)	6.20%
M36	Aluminium Doors, Windows	9.80%
M27	Wall paints	1.70%
M32	Floor tiles	6.50%
M33	Wall tiles	1.40%
M38	Electrical Fittings	5.90%
M46	Zink Aluminum Sheets	4.30%
M50	Stainless steel	1.20%
M56	Structural GI	1.20%
L1	Skilled labour	6.900%
L3	Unskilled labour	7.900%
	Total	**90.0%**

SCHEDULE 9.10 - FORM FOR AFFIDAVIT FOR THE CURRENT COMMITMENTS

General Manager Railways,
General Manager's Office,
P.O Box 355,
Sri Lanka Railways,
Colombo 10.

In accordance with the Clause 4.2.(f) of Bidding Data, I (We) declare that the outstanding Contract Commitments of (Name of the Bidder (s)) are as follows. I (We) further declare that all the outstanding contract commitments are listed below.

No.	Name of the Contract	Name of the Employer & Contract Number	Initial Contract Price (Rs.)	Value of outstanding Works (Rs.)	Estimated Completion Date

.....
Authorized Signature and the Stamp

*Note : Bidders shall provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which a full completion certificates has yet to received.

Schedule 09.11 – Day Works

09.11.1 Labour

The Bidder shall enter below the gross daily wage including all allowances but excluding bonuses for the basic working hours for various categories of skilled and unskilled labour.

Any labour engaged on Day works shall be paid at the rates given below.

Labour	**Gross Daily Wage** **Rs.** **Cts**
1. Bar Bender 2. Mason 3. Carpenter 4. Welder 5. Mechanic 6. Electrician 7. Lorry Driver 8.Unskilled Labour 9.Semiskilled Labour	

09.11.2 PLANT

Plant engaged on Day works shall be paid at the rates given below.

The rates are for wet hire. These rates shall also include cost of provision of operators and attendants.

Plant Description	**Capacity**	**Rate per hour** **Rs. Cts.**
Lorry / Tipper	5 tonne	
Concrete Mixer	350 liters	
Vibrating roller machine	01 Ton	
Tamping rammer machine	6.5 HP	
Water pump	1/2 HP	
Wheel Loader	1 ½ m^3	
Excavator	0.4m^3 bucket Capacity	
Generator	10 kVA	
Electrical Hammer Drill Machine		
Welding Plant		
Poker vibrator, petrol driven		

09.11.3 MATERIALS

Material	Unit	Rate Rs Cts.
1. Cement	1 bag (50 kg)	
2. Reinforcement Mild Steel Tor Steel	 1 Ton 1 Ton	
3. Coarse Aggregates Size ¾ ”	 1 m^3	
4. River Sand	1 m^3	
5. 2”(inch) Dia 3mm thick GI pipe	1 Nos	
6. Paints Weather Shield	 4 liters	
7. ¾” thick Plywood	01 Nos	
8. Concrete: Grade 15	1 m^3	
9. Concrete: Grade 25	1 m^3	
10. Concrete: Grade 30	1 m^3	

Section 8 - Drawings

(Bound Separately)

LIST OF DRAWINGS

CONSTRUCTION OF PROPOSED STATION BUILDING AT MHO JUNCTION		
No.	**Drawing Number**	**Title**
ARCHITECTURAL DRAWINGS		
01	Bu/N/ANP/Drg/23342/A-1	ARCHITECTURAL DRAWING
02	Bu/N/ANP/Drg/23342/A-2	ARCHITECTURAL DRAWING
STRUCTURAL DRAWINGS		
03	Bu/N/ANP/Drg/23342/B	LAYOUT OF FOOTINGS & COLUMNS & R/F DETAILS
04	Bu/N/ANP/Drg/23342/C	LAYOUT OF WALLS & TIE BEAM, FOUNDATION DETAILS
05	Bu/N/ANP/Drg/23342/D	FIRST & SECOND FLOOR GENERAL ARRANGEMENT
06	Bu/N/ANP/Drg/23342/E	FIRST & SECOND FLOOR BEAM REINFORCEMENT DETAILS
07	Bu/N/ANP/Drg/23342/F	FIRST & SECOND FLOOR SLAB REINFORCEMENT DETAILS
08	Bu/N/ANP/Drg/23342/G-1	LAYOUT OF ROOF BEAMS & TRUSSES
09	Bu/N/ANP/Drg/23342/G-2	ROOF TRUSS DETAIL
10	Bu/N/ANP/Drg/23342/H	STAIRCASE R/F DETAILS
11	Bu/N/ANP/Drg/23342/I	DOORS & WINDOWS DETAILS
12	Bu/N/ANP/Drg/23342/J	LIGHTNING LAYOUT
13	Bu/N/ANP/Drg/23342/K	SOCKET OUTLET LAYOUT
14	Bu/N/ANP/Drg/23342/L	WATER SUPPLY SYSTEM

CONSTRUCTION OF PROPOSED STATION BUILDING AT MHO JUNCTION		
No.	**Drawing Number**	**Title**
15	Bu/N/ANP/Drg/23342/M	WASTE WATER & SEWER DISPOSAL LAYOUT
16	Bu/N/ANP/Drg/23342/N	WASTE WATER & SEWER DISPOSAL SYSTEM
17	Bu/N/ANP/Drg/23342/0	STORM WATER SYSTEM
18	Bu/N/ANP/Drg/23342/P	SEPTIC TANK & WASTE WATER MANHOLE DETAIL
19	Bu/N/ANP/Drg/23342/Q	SOAKAGE PIT & SEWER MANHOLE DETAIL
20	Bu/N/ANP/Drg/23342/R	DISABLE RAMP DETAIL

Section 9 - 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: General Manager Railways, General Manager's Office, Sri Lanka Railways, P.O. Box 355, Colombo 10.

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 **Construction Proposed Station Building at MHO Junction** under Invitation for Bids No. ---------- *[insert IFB number]* ("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") ; or

(c) having been notified of the acceptance of its Bid by the Employer 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 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.

_____

[signature(s) of authorized representative(s)]

CHECK LIST FOR BIDDERS

Bidders are advised to fill the following table:

ITEM	ITB Clause	YES (tick)	REFERENCE
Form of Bid			
Addressed to the Employer?	20		
Completed?	20		
Signed?	20		
Price Schedule/Bill of Quantities			
Signed?			
Bid security			
Addressed to the Employer?	17		
Required Format	17		
Issuing agency as specified?	17		
Amount as requested?	17		
Validity 28 Days beyond the validity of Bid?	17		
Legal Status			
Section10, Schedule-1, filled?			
VAT Registration			
PCA 3 Form			
CIDA Registration			
Expiry Date?			
Audited Financial Statements			
2024/2025			
2023/2024			
2022/2023			
2021/2022			
2020/2021			

ITEM	ITB Clause	YES (tick)	REFERENCE
Qualification Information			
All relevant information completed?	4		
Signed?	4		
Addendum			
Contents of the addendum (if any) taken in to account?	11		
Bid Package			
All the documents given in ITB Clause 13 enclosed in the Original and Copy?	13		
ITB Clause 21 followed before Sealing the Bid package?	21		

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF TRANSPORT, HIGHWAYS AND URBAN DEVELOPMENT

DEPARTMENT OF SRI LANKA RAILWAYS

CONSTRUCTION OF PROPOSED STATION BUILDING AT MAHO JUNCTION

CONTRACT NO: SRS/F. 8108

BILL OF QUANTITIES

Employer:
General Manager Railways,
General Manager's Office,
Sri Lanka Railways,
P.O. Box 355,
Mawatha,
Colombo 10.

Engineer:
Chief Engineer (Way & Works),
Chief Engineer's Office,
Sri Lanka Railways,
No. 01, D.R. Wijewardane

Colombo 10.

JUNE 2026