Standard Bidding Document

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)
(Works)

National

Single Stage-Two Envelope

November 23, 2026

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REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **Office of Chief Controller Purchase Office (Pakistan Railways)** has reserved Funds for the procurement planned for FY **2026-27**. The **Office of Chief Controller Purchase Office (Pakistan Railways)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)**" with the reference of " **P211590**".

2. The **Office of Chief Controller Purchase Office (Pakistan Railways)** invites sealed Bids from eligible Bidders for procurement of Works **(CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION))** described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amount described in Bid Security Section in Bidding Document in the form of **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**. Or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/211590** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to

get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS v2.0** on or before **Monday, December 21, 2026 10:30 AM**. E-bids will be opened by using **EPADS v2.0** on the same day at **Monday, December 21, 2026 11:00 AM**. Manual submission of Bids shall not be entertained. Those vendor who have not yet registered on the new version of **EPADS v2.0**, may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registeration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc.**

In terms of Rules 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.org.pk**).

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Instructions to Bidders

A. INTRODUCTION

1. **Scope of Bid**

1.1. The Procuring agency/Employer (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the execution of Works as specified in the BDS and Section VI- Works Requirements. The name, identification, and number of lots (contracts) of this National/ International Competitive Bidding process are specified in the BDS.

2. **Source of Funds**

2.1. Source of funds as referred in Clause 2 of Bid Data Sheet.

3. **Eligible Bidders**

3.1. A bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture or consortium. In the case of a joint venture or consortium, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture or consortium shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture or consortium during the Bidding process, and in case of award of contract, during the execution of contract. Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

Any bid submitted by the joint venture, shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.

(The limit on the number of members of JV or Consortium may be prescribed

in BDS, in accordance with the guidelines issued by the PPRA).

3.2. The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidder keeping in view the requirement of that business.

3.3. A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

3.3.1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring agency/Employer to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or

3.3.2. have controlling shareholders in common; or

3.3.3. receive or have received any direct or indirect subsidy from any of them; or

3.3.4. have the same legal representative for purposes of this Bid; or

3.3.5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the Procuring agency/Employer regarding this Bidding process; or

3.3.6. Submit more than one bid in this bidding process.

3.4. A Bidder may be ineligible if –

3.4.1. he is declared bankrupt or, in the case of company or firm, insolvent;

3.4.2. payments in favor of the bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3.4.3. the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct;

3.4.4. The bidder is debarred/ blacklisted by a national level Procuring agency/Employer and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.

3.5. As and when required, bidders shall provide to the Procuring agency/Employer evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.6. Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged.

4. **Eligible Material and Equipment**

4.1. All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as “Eligible Countries”.

B. BIDDING DOCUMENTS

5. **Contents of Bidding Documents**

5.1. The scope of Works, bidding procedures, and terms and conditions of the contract are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents which should be read in

conjunction with any addenda issued in accordance with ITB 7.1 include:

Section I Instructions to Bidders (ITBs)

Section II Bid Data Sheet (BDS)

Section III Evaluation and Qualification Criteria

Section VI Bidding Forms

Section V Eligible Countries

Section VI Works Requirements

Section VII General Conditions of Contract (GC)

Section VIII Particular Conditions of Contract (PC)

Section IX Contract Forms

5.2. The bidder is expected to examine all instructions, forms, specifications, terms and conditions prescribed in the bidding documents. Failure to furnish all the information required in the bidding documents will be at the bidder's risk and may result in the rejection of his bid.

6. **Clarification of Bidding Document, Pre-bid Meeting**

6.1. A prospective bidder requiring any clarification of the bidding document may notify the Procuring agency/Employer through EPADS.

6.2. The Procuring agency/Employer shall respond to the request for clarification in accordance with Rule 38 of the Public Procurement Rules 2026.

6.3. Should the Procuring Agency deem it necessary to amend the BIDDING document as a result of a clarification, it shall do so following the procedure under ITB 7.

6.4. If indicated in the BDS, the bidder's designated representative is invited at the bidder's cost to attend a pre-bid meeting at the place, date and time mentioned in the BDS. During this pre-bid meeting, prospective bidders may request clarification of the schedule of requirement, the evaluation criteria or any other aspects of the bidding documents.

6.5. Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by bidders, including those during the meeting (without identifying the source) and the responses given, together with any

responses prepared after the meeting will be uploaded on EPADS. Any modification to the bidding documents that may become necessary as a result of the pre-bid meeting shall be made by the Procuring agency/Employer exclusively through the use of an Addendum pursuant to ITB 7. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

6.6. The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.

6.7. The bidder and any of its authorized personnel will be granted permission by the Procuring agency/Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring agency/Employer from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

7. **Amendment of Bidding Documents**

7.1. The procuring agency may issue notification of any change, addition, modification or deletion in accordance with Rule 34 of the Public Procurement Rules 2026 i.e. Bidding Documents.

7.2. To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring agency/Employer may, at its discretion, extend the deadline for the submission of bids:
Provided that the Procuring agency/Employer shall extend the deadline for submission of bid in pursuance of Rule 39 of the Public Procurement Rules 2026, i.e. Extension of time for submission of bids, if such an addendum is issued within last three (03) days of the bid submission deadline.

C. PREPARATION OF BIDS

8. **Language of Bid**

8.1. The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring agency/Employer shall be written in the English language unless specified in the BDS. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the BDS, in which case, for purposes of interpretation of the bidder, the translation shall govern.

9. **Documents Comprising the Bids**

9.1. The Bid prepared by the Bidder shall constitute the following components: -

9.1.1. Documentary evidence established in accordance with ITB 9 that the material and equipment to be utilized by the Bidder for the executions of works are eligible material and equipment and conform to the Bidding Documents

9.1.2. Documentary evidence established in accordance with ITB 10 that the Bidder has been authorized to carry out the Construction works;

9.1.3. Documentary evidence established in accordance with ITB 10 that the Bidder is eligible and/or qualified for the subject Bidding process;

9.1.4. Letter of Bid and Schedules and Bid Prices completed in accordance with ITB 11 and 12;

9.1.5. Completed schedules as required, including priced Bill of Quantities in accordance with ITB 11.

9.1.6. Technical Proposal completed in all aspects in accordance with ITB 14.

9.1.7. Bid security or Bid Securing Declaration furnished in accordance with ITB 16;

9.1.8. Any other Document required in the BDS.

9.2. In addition to the requirements, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement. Bids submitted by a joint venture of two (2) or more firms specified in Bidding Data, shall comply with the following requirements:

9.2.1. The bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners;

9.2.2. One of the joint venture partners shall be nominated as being in-charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners.

9.2.3. For the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;

9.2.4. All partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Letter of Bid and in the Form of Contract Agreement (in case of a successful bid); and

9.2.5. copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the

joint venture, the proportionate participation and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

9.3. The Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all material, equipment and works which the Bidder proposes to execute.

9.4. The documentary evidence of conformity of the material, equipment and works to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:

9.4.1. a detailed description of the work methodology, approach, schedule and resources to be mobilized at site;

9.4.2. any other procurement specific documentation requirement as stated in the BDS

9.4.3. The Bidder shall furnish in the Letter of Bid name(s) of the potential DAAB member(s) and attach their curriculum vitae. The list of potential DAAB member(s) proposed by the Employer (Contract Data 21.1) and by the Bidder (Letter of Bid) shall be subject to mutual review and agreement of the Parties in accordance with Sub-Clause 21.1 of the Conditions of Contract, and shall form the basis for the constitution of the DAAB in the event of Contract award.

10. **Documents Establishing Eligibility and Qualification of the Bidder**

10.1. The bidder shall furnish, as part of its bid, all those documents establishing the bidder’s eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.

10.2. The documentary evidence of the bidder’s eligibility to bid shall establish to the satisfaction of the Procuring agency/Employer that the

bidder, at the time of submission of its bid, is from an eligible country as defined in Section-V titled as “Eligible Countries”.

10.3. The documentary evidence of the bidder’s qualification to perform the contract if its bid is accepted shall establish to the satisfaction of Procuring agency/Employer that:

10.3.1. The bidder has the financial and technical capability necessary to perform the Contract, meets the qualification criteria specified in Section-III, Evaluation and Qualification Criteria and BDS.

10.3.2. In the case of a bidder not doing business within Pakistan, the bidder is or will be (if awarded the contract) represented by a local bidder (Joint Venture) in accordance with the PEC works bylaws, and in case of award of works such foreign firm is required to participate in the execution of works to carry out its obligations as prescribed in the Conditions of Contract and /or Technical Specifications.

10.3.3. That the bidder meets the qualification criteria listed in Section-III, Evaluation and Qualification Criteria and BDS.

11. **Letter of Bid and Schedules**

11.1. The Bidder shall fill the Form of Bids furnished in the bidding documents. The Bids Form must be completed without any alterations to its format and no substitute shall be accepted.

12. **Bid Prices**

12.1. The bid prices quoted by the bidder in the Bidding Forms, Bill of Quantities and in the Schedule to Bid, shall conform to the requirements specified below or exclusively mentioned hereafter in the bidding documents.

12.2. The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will not be paid for separately by the

Procuring agency/Employer.

12.3. The Bid price to be quoted in the Form of Bid in accordance with ITB 11 shall be the total price of the bid.

12.4. Unless otherwise specified in the BDS and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.

12.5. If so specified in ITB 1.1, bids may be invited for individual lots (contracts) or for any combination of lots (packages).

12.6. Prices quoted by the Bidder shall either be fixed or adjustable during the Bidder’s performance of the contract if specified in the BDS

12.7. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date twenty-eight (28) days prior to the deadline for submission of bids, shall be included in the rates and prices and the total bid price submitted by the bidder.

13. **Currencies of Bid and Payment**

13.1. The unit rates and the prices shall be quoted by the Bidder entirely Pakistani Rupees. A Bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer’s country (referred to as the “Foreign Currency Requirements”) shall indicate in Table III of Schedule-A to Bid the proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements; in such case the unit rates and the prices shall be quoted by the Bidder in Equivalent Pakistani Rupees. Comparison of Bids and tie of Bid shall be treated in accordance with the Public Procurement rules 2026, rule no. 42.

14. **Documents Comprising the Technical Proposal**

14.1. The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV – Bidding Forms, in sufficient detail to

demonstrate the adequacy of the bidder's proposal to meet the work requirements and the completion time.

15. **Bid Validity Period**

15.1. Bids shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by the Procuring agency/Employer. A bid valid for a shorter period shall be rejected by the Procuring agency/Employer as non-responsive. The period of bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration as the case may be.

15.2. Under exceptional circumstances, prior to the expiration of the initial Bids/Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids/Bid. Such request for extension of the period of bid validity shall be carried out in accordance with Rule 37 of the Public Procurement Rules, 2026.

16. **Bid Security or Bid Securing Declaration**

16.1. Pursuant to ITB 10.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in accordance with Rule 36 of the Public Procurement Rules, 2026 in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section IV (Bidding Forms).

In case Procuring agency/Employer is inviting bids in lots / packages, the bidder shall be required to submit his bid security against the respective lot/ package for which he is submitting his bid.

Until the development of functionality of auto verification of financial instrument in EPADS, the scanned copy of bid security or bid securing declaration, as the case may be, shall be uploaded on E-PADS whereas the original instrument to be submitted to the procuring agency before closing of bid submission deadline, failing which shall result in rejection of Bid as non-responsive.

16.2. The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in

the **BDS** which shall be in any of the following:

16.2.1. A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring agency/Employer and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the bidder;

16.2.2. A cashier's or certified cheque; or

16.2.3. Another security as indicated in the **BDS**.

16.3. The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Schedule to Bid or another form approved by the Procuring agency/Employer prior to the bid submission.

16.4. The Bid Security shall be payable promptly upon written demand by the Procuring agency/Employer in case any of the conditions listed in ITB 16.9 are invoked.

16.5. Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 16.1 or 16.3 shall be rejected by the Procuring agency/Employer and shall be declared as non-responsive bid, pursuant to ITB 25.

16.6. Unsuccessful bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring agency/Employer pursuant to ITB 15. The Procuring agency/Employer shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:

16.6.1. The expiry of the Bid Security;

16.6.2. The entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents;

16.6.3. The rejection by the Procuring agency/Employer of all Bids;

16.6.4. The withdrawal of the bid prior to the deadline for the submission of bids, unless the biding documents stipulate that no such withdrawal is permitted.

16.7. The successful bidder’s Bid Security will be discharged upon the bidder signing the contract pursuant to ITB 38, or furnishing the performance security (or guarantee), pursuant to ITB 39.

16.8. The Bid Security may be forfeited or the Bid Securing Declaration executed:

16.8.1. if a Bidder:

16.8.1.1. Withdraws its Bid during the period of Bid Validity as specified by the Procuring agency/Employer, and referred by the bidder on the Form of Bid except as provided for in ITB 15.2; or

16.8.2. In the case of a successful bidder, if the bidder fails:

16.8.2.1. to sign the contract in accordance with ITB 38; or

16.8.2.2. to furnish performance security (or guarantee) in accordance with ITB 39.

16.9. In case of Bid Security issued by the foreign bank is allowed by the Procuring agency/Employer, the same should be counter guaranteed by a corresponding bank in Pakistan. Furthermore, in case of joint venture, it should be in the name of Joint venture to ensure joint responsibility. In case the JV is not legally constituted at the time of bid submission, the bid security or bid securing declaration shall be in the names of Joint Venture or Lead/either Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid.

17. **Withdrawal of Bids**

17.1. The Bidder shall prepare and submit Bids through EPADS with due diligence after carefully reading all the terms and condition before Bid submission deadline

18. **Format and Signing of Bid**

18.1. The Bidder shall prepare and submit Bids through EPADS with due diligence after carefully reading all the terms and condition before bid submission deadline.

D. SUBMISSION OF BIDS

20. **Submission of Bids through EPADS v2.0**

20.1. All bids shall be submitted through EPADS v2.0.

21. **Deadline for Submission of Bids**

21.1. All bids shall be received through **EPADS v2.0** not later than bid submission deadline as specified in the **BDS**.

21.2. The Procuring agency/Employer may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids, pursuant to Rule 39 of the Public Procurement Rules, 2026. Extension of Time for submission of bid, by amending the Bidding Documents in accordance with ITB 7, in which case all rights and obligations of the Procuring agency/Employer and bidders previously subject to the deadline will thereafter be subject to the new deadline.

22. **Withdrawal, Substitution and Modification of Bids**

22.1. A bidder may substitute or modify his bid after it has been submitted, provided that written notice of the substitution or modification of the bid, is received by the Procuring agency/Employer prior to the deadline for submission of bids.

22.2. Revised bid may be submitted after the substitution or modification made in the original bid in accordance with the provisions referred in **ITB 20.1**.

E. OPENING AND EVALUATION OF BIDS

23. **Opening of Bids**

23.1. The Procuring Agency will open bids in accordance with Rule 40 of the Public Procurement Rules, 2026 and as specified in the BDS.

24. **Confidentiality**

24.1. Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.

25. **Clarification of Bids**

25.1. Clarification of Bidding Documents shall be carried out in accordance with Rule 38 of the Public Procurement Rules, 2026.

25.2. The alteration or modification in the bid which in any case affect the following parameters will be considered as a change in the substance of a bid:

25.2.1. evaluation & qualification criteria;

25.2.2. required scope of work;

25.2.3. contract price;

25.2.4. all securities requirements;

25.2.5. tax requirements;

25.2.6. terms and conditions of bidding documents.

25.2.7. change in the ranking of the bidder

26. **Preliminary Examination of Bids**

26.1. Prior to the detailed evaluation of bids, the Procuring agency/Employer will determine whether each bid:

26.1.1. meets the eligibility criteria defined in **ITB 3** and **ITB 4**;

26.1.2. has been prepared as per the format and contents defined by the Procuring agency/Employer in the bidding documents;

26.1.3. has been properly signed;

26.1.4. is accompanied by the required securities; and

26.1.5. is substantially responsive to the requirements of the bidding documents.

The Procuring agency/Employer's determination of a bid's substantial responsiveness will be based on the contents of the bid itself.

26.2. A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: -

26.2.1. affects in any substantial way the scope, quality, or performance of the Works;

26.2.2. limits in any substantial way, inconsistent with the bidding documents, the Procuring agency/Employer's rights or the bidders' obligations under the Contract; or

26.2.3. if rectified, would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

26.3. The Procuring agency/Employer will confirm that the documents and information specified under ITB 9, 10 and 11 have been provided in the bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.

26.4. The Procuring agency/Employer may waive-off any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

Explanation: A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the works. The Procuring agency/Employer either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring agency/Employer. Examples of minor informalities or irregularities include failure of a bidder to –

26.4.1. *Submit the number of copies of signed bids required by the invitation;*

26.4.2. *Furnish required information concerning the number of its employees;*

26.4.3. *the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.*

26.5. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer may request the bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the bidder to comply with the request may result in the rejection of its bid.

26.6. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer shall rectify quantifiable nonmaterial nonconformities or

omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.

26.7. If a bid is not substantially responsive, it will be rejected by the Procuring agency/Employer and may not subsequently be evaluated for complete technical responsiveness.

27. **Examination of Terms and Conditions; Technical Evaluation**

27.1. The Procuring agency/Employer shall examine the bid to confirm that all terms and conditions specified in the **GC** and the **PC** have been accepted by the bidder without any material deviation or reservation.
For this purpose:
“Deviation” means departure from the requirements specified in the Bidding Document.
“Reservation” means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.

27.2. The Procuring agency/Employer shall evaluate the technical aspects of the bid submitted in accordance with ITB 28, to confirm that all requirements specified in Section VI – Works Requirement, Technical Specifications of the Bidding Documents have been met without material deviation or reservation.

27.3. If after the examination of the terms and conditions and the technical evaluation, the Procuring agency/Employer determines that the bid is not substantially responsive in accordance with ITB 25, it shall reject the bid.

28. **Correction of Arithmetic Errors**

28.1. Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

28.1.1. if there is a discrepancy between unit prices and the sub-total price that is obtained by multiplying the unit price and quantity, the unit

price shall prevail, and the sub-total price shall be corrected, unless in the opinion of the Procuring agency/Employer there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

28.1.2. Subtraction of sub-totals, the sub-totals shall prevail, and the total shall be corrected; and

28.1.3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

28.1.4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

28.2. The amount stated in the Bid will, be rectified by the Procuring agency/Employer in accordance with the above procedure for the correction of errors and, with, the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with **ITB 39.3**.

29. **Conversion to Single Currency**

29.1. Comparison of bids quoted in different currencies and conversion of bids into a single currency shall be carried out in accordance with the Public Procurement Rule 2026, rule no. 42(2) as specified in the BDS

30. **Evaluation of Bids**

30.1. The Procuring agency/Employer shall evaluate and compare only the bids determined to be substantially responsive, pursuant to **ITB 25**.

30.2. In evaluating the Technical Proposal of each Bid, the Procuring agency/Employer shall use the criteria and methodologies listed in the BDS and in terms of works requirement. No other evaluation criteria or methodologies shall be permitted.

30.3. The Procuring agency/Employer's evaluation of a bid will take into account:

30.3.1. the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively;

30.3.2. converting the amount resulting from applying above, if relevant, to a single currency in accordance with ITB 27;

30.4. The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

30.5. If these bidding documents allow bidders to quote separate prices for different lots, and the award to a single bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the **BDS**.

30.6. If the bid, which results in the Evaluated Bid Price (Successful Bid), is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

Explanation:

"Unbalanced" or "front-loaded" bids consist of deliberately submitting bids with artificially high prices or unit rates for the early stages of a construction project, offset by artificially low prices or unit rates for the later stages of the project, to improve the contractor's cash flow.

31. **Domestic Preference**

31.1. If the **BDS** so specifies, the Procuring agency/Employer will grant a margin of preference to the domestic contractor in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.

32. **Determination of Successful Bid**

32.1. The Procuring agency/Employer shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Successful bidder.

33. **Qualification of Bidder**

33.1. The Procuring agency/Employer shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as Successful bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria.
Note: In case of international bidding, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.

33.2. The determination shall be based upon an examination of the documentary evidence of the bidder’s qualifications submitted by the bidder, pursuant to **ITB 10**.

33.3. Prior to contract award, the Procuring agency/Employer will verify that the successful bidder (including each member of a JV) is not blacklisted/debarred. The Procuring agency/Employer will conduct the same verification for each sub-contractor proposed by the successful bidder.

34. **Sub-Contractors**

34.1. The bidder shall provide details regarding any specialized sub-contractor to the Procuring agency/Employer. In case change of sub-contractors, the bidder shall promptly notify the Procuring agency/Employer and obtain approval for replacement of sub-contractors.

34.2. Bidders may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **BDS**.

35. **Abnormally Low Financial Bid**

35.1. A procuring Agency may reject abnormally low bids in accordance with the Public Procurement Rules 2026 rule no. 43. The decision of the Procuring agency/Employer to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned. Moreover, the Procuring agency/Employer shall not incur any liability solely by rejecting abnormally bid

Guidance for Procuring agency/Employer:

An abnormally low Bid means, a Bid containing Bid price that is less or lesser than twenty five percent (25%) of the Procuring agency/Employer's estimate.

35.2. The Procuring agency/Employer will determine to its satisfaction whether the bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB 10.**

35.3. The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to **ITB 10**, as well as such other information as the Procuring agency/Employer deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders' qualifications.

35.4. Procuring agency/Employer may seek "Certificate for Independent Price Determination" from the bidder and the results of reference checks may be used in determining award of contract.

Explanation: The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

35.5. An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder’s bid, in which event the Procuring agency/Employer will proceed to the next ranked bidder to make a similar determination of that bidder’s capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

36. **Criteria of Award**

36.1. Subject to **ITB 34 and 35**, the Procuring agency/Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Successful Bidder, provided that such bidder has been determined to be:

36.1.1. eligible in accordance with the provisions of **ITB 3**;

36.1.2. is determined to be qualified to perform the Contract satisfactorily; and

36.1.3. Successful negotiations have been concluded, if any.

37. **Negotiations**

37.1. The Committee of the Procuring agency/Employer may negotiate with the Successful Bidder in accordance with Public Procurement Rules 2026 rule no. 26(3).

38. **Procuring agency's Right to reject All Bids**

38.1. The procuring agency has the right to reject all bids in accordance with Rule 45 of the Public Procurement Rules, 2026. However, the Authority (i.e. **PPRA**) may call from the Procuring agency/Employer the justification of those grounds.

39. **Notification of Award**

39.1. The procuring agency shall announce and publish the evaluation result in accordance with Rule 48 of the Public Procurement Rules, 2026.

39.2. Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Procuring agency/Employer prior to expiration of the bid validity period through EPADS. However, the Procuring agency/Employer shall not award any procurement contract at least for five (05) days after the announcement of final evaluation report. The notification letter (herein after and in the condition of the contract and contract form called “Letter of Acceptance” will specify the sum that the Procuring agency/Employer will pay the successful bidder in consideration for the execution and completion of the works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

39.3. The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with **ITB 39** and signing of the contract in accordance with **ITB 38**.

39.4. Upon the successful bidder’s furnishing of the performance security (or guarantee) pursuant to **ITB 39**, the Procuring agency/Employer will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the bidder(s) pursuant to **ITB 16**.

40. **Signing of Contract**

40.1. Promptly after notification of award, Procuring agency/Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.

40.2. Immediately after the Redressal of grievance by the **GRC**, and after fulfillment of all conditions precedent of the Contract Form, the successful bidder and the Procuring agency/Employer shall sign the contract.

40.3. Where no formal signing of a contract is required, work order issued to the bidder shall be construed to be the contract.

41. **Performance Security (or Guarantee)**

41.1. After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Procuring agency/Employer a Performance Guarantee in the amount and in the form stipulated in the BDS and PCC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

41.2. If the Performance Guarantee is provided by the successful bidder and it shall be in the form specified in the BDS which shall be in any of the following:

41.2.1. certified cheque, cashier's or manager's cheque, or bank draft;

41.2.2. irrevocable letter of credit issued by a scheduled bank of Pakistan or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a scheduled bank of Pakistan;

41.2.3. bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign bidder, bonded by a foreign bank; or

41.2.4. surety bond callable upon demand issued by any reputable surety or insurance company.
Any Performance Guarantee submitted shall be enforceable in Pakistan.

41.3. Failure of the Most Advantageous Bidder to comply with the requirement of **ITB 40** shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event the Procuring agency/Employer may make the award to the next most advantageous bidder or reinitiate the procurement process afresh (as a case may be).

42. **Advance Payment**

42.1. Advance payment will be provided to the bidder in percentage and in the manner as agreed by the both parties in terms of Conditions of the Contract.

42.2. The Procuring agency/Employer will provide an advance payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated and/or Conditions of the Contract. The advance payment request shall be accompanied by an advance payment security (guarantee) in the form provided in Section X. For the purpose of receiving the advance payment, the bidder shall make and estimate of, and include in its bid, the expenses that will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring agency/Employer's "**Notice to Commence**" as specified in the **PCC**.

43. **General Performance of the Bidders**

43.1. The Procuring agency/Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Procuring agency/Employer may seek information / report from the previous employer for consideration. However, the Procuring agency/Employer shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.

44. **Corrupt & Fraudulent Practices**

44.1. Procuring agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

45. **Grievance Redressal**

45.1. Grievance Redressal shall be carried out in accordance with Rule 65 of the Public Procurement Rules, 2026 i.e. Redressal of grievances by the procuring agency and "Redressal of Grievances Regulations 2021".

H. MECHANISM OF BLACKLISTING

46. **Mechanism of Blacklisting**

46.1. The Procuring agency/Employer shall proceed Blacklisting of Bidders/Contractors in accordance with Rule 25 of the Public Procurement Rules, 2026 i.e. Blacklisting and “Blacklisting and Debarment of Bidders or Contractors Regulations 2024.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bid Data Sheet

Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
A. Introduction		
1	1.1	Name of Procuring Agency:**Office of Chief Controller Purchase Office (Pakistan Railways)** The subject of procurement is:**CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)** Expected commencement date: **Sunday, January 31, 2027**
2.	2.1	Financial year for the operations of the Procuring Agency:**2026-27** Name and identification number of the Contract: **P211590**
3.	3.1	JV/Consortium or AssociationAllowed: **Yes** Number of JV/Consortium Members: **3**
B. Bidding Documents		

4.	**6.2 & 6.4**	The Bidders may seek clarifications through **EPADS v2.0**: Clarification Date: Friday, December 18, 2026 Pre-Bid Meeting: Saturday, December 12, 2026 12:00 AM Venue: Pakistan Railway Headquarter.
5.	**7.2**	Any addendum, in case issued, shall be published on **Office of Chief Controller Purchase Office (Pakistan Railways)** website and on **EPADS v2.0**.

C. Preparation of Bids

6.	**8.1**	List of documents required along with the bid: 1. ALL REQUIRED AS PER BIDDING DOCUMETS
7.	**9.1**	The qualification criteria to establish the supply / production capability of the bidder. *see Eligibility Criteria*
8.	**11.2**	**Works and Their relateddocuments:** *See section Required Scope of Work*
9.	**11.1**	Price schedule will be provided according to the format defined and acquired. *see section price schedule.*
10.	**11.4**	**Specifications:** *see section of specifications.*

11.	**11.5 & 13.5**	The price shall be **Fixed**. The bid price shall be adjusted in accordance with Appendix provided – Formula for Price Adjustment.
12.	**14.1**	Currency of the Bids shall be : **PKR**
13.	**16.1**	The Bids/Bid Validity period shall be: **120 Days**
14.	**17.1**	The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
15.	**17.2**	The Bid Security shall be in the form of: **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**
16.	**15.1**	Alternative Bids to the requirements of the bidding documents willnot be permitted.
D. Submission of Bids		
17.	**18.1 & 21.1**	Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following; **Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province).** Bids that are not submitted on EPADS v2.0 shall be disqualified. The deadline for Bids submission is: **Monday, December 21, 2026 10:30 AM**

E. Opening and Evaluation of Bids

18.	**24.1**	The Bids opening shall take place on **EPADS v2.0**. Day *:* ***Monday*** Date:***December 21, 2026*** Time *:* ***11:00 AM***
19.	**30.2**	Selection technique adopted will be: **Least Cost Based Selection (LCBS)** *see Evaluation Criteria*

F. Award of Contract

20.	**41.1 & 41.2**	The Performance guarantee shall: **5.00%**. The Performance Guarantee shall be acceptable in the form of:**Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**
21.	**45.1**	Arbitrator shall be appointed by mutual consent of the both parties.

G. Review of Procurement Decisions

22.	**37**	Grievance against this procurement shall be submitted online on EPADS v2.0.

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
NADRA CITIZENSHIP (CNIC/NICOP) FBR (NTN) FBR (GSTN) PEC

Eligibility Criteria	Document
Registration with Pakistan Engineering Council (PEC) For Construction: a) The Contractor /Lead JV Partner must possess valid PEC registration certificate in financial category ‘CA’ (No Limit) and in discipline CE-01, EE-07, EE-08 & CE-10. b) The JV Partners, other than lead JV Partner, must have the valid PEC Registration Certificate in Financial Category and Discipline where its JV Share falls. c) Any firm applied for renewal of PEC registration must receipt issued by PEC.	Yes
d) Foreign entities can participate in the bidding process. In case, if the foreign bidders are not registered with PEC and Federal Board of Revenue (FBR), they should register themselves before submission of Bids signing of contract agreement. Note: • Copy of valid PEC registration certificates to be attached.	Yes

Registration with Tax Authorities The Bidder, and JV Contractors, must possess valid registration certificate from income tax authority (i.e., the NTN certificate) and relevant sales tax authority, if applicable. Note: • Valid NTN certificate to be attached and relevant sales tax certificate, if applicable. • Foreign entities if participating in the Bidding Process should submit tax certificate of their country duly attested by Pakistani Consulate/Pakistan High Commission of their coun	Yes
General Construction Experience For Construction: For Single Entity /JV Contractor: Firms/ Contractors/Lead JV Contractors have been in business of construction for at least for Ten (10) years. (Attach Constitutional Documents including Memorandum and Articles of Association, Certificate of Incorporation or other documents of constitution, documents of registration of the legal entity, etc.)	Yes
For Other Members of JV: Firms /Contractors have been in business of construction for at least for Ten (10) years, (Attach Constitutional Documents including Memorandum and Articles of Association, Certificate of Incorporation or other documents of construction, documents of registration of the legal entity, etc.)	Yes
Infrastructure Work Experience For Construction: Firms/Contractors/Lead JV Contractors must have an experience of constructing at least One (1) Relevant procurement & construction project completed/ substantially completed in the past ten (10) years. The cost of project should not be less than PKR 2000.00 million (Pakistani Rupees Two Thousand million only).	Yes
Note: Only those projects will be considered whose work order or completion/ substantially completion certificate, clearly indicating the name of the applicant as contractor and the cost of works.	Yes
For Other Members of JV: JV member undertaking the construction works under JV Agreement must have an experience of completing at least one project/work in their relevant field and financial category in past Ten (10) years. The cost of which should not be less than Rs.500.00 million (Pakistani Rupees Five Hundred Million only). However, total worth such projects shall not be less than 2000.00 million.	Yes
Note: Only those projects will be considered whose work order or completion/ substantially completion certificate, clearly indicating the name of the applicant as contractor and the cost of works.	Yes

Net Worth Net worth of the firm/ lead JV shall be PKR 2,000,000,000/-(Pakistani Rupees Two Billion only) as presented in the most recent financial statement /wealth statement. In case there is more than one (1) Contractor, all Contractors, collectively, must meet the criterion and Lead JV contractor should have a Net Worth not less than PKR 8,00,000,000/-(Pakistani Rupees Eight Hundred Million only). (The JV Contractor (s) shall submit Audited Financial Statement and / or wealth statement to	Yes
Average Annual Construction Turnover The firm/ contractor/ JV should have an average Annual Construction Turnover of PKR 4,000,000,000/-(Pakistani Rupees Four Billion) only for last three (3) years. In case there is more than one (1) Contractor, all Contractors, collectively, must meet the criterion and Lead JV contractor should have an Average Annual Construction Turnover of more than PKR 1,000,000,000/-(Pakistani Rupees One Thousand Million only).	Yes
The JV Contractor (s) shall submit Audited Balance Sheet/ FBR Tax Return	Yes

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Evaluation Criteria

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	100
Passing Marks	**70**
Relevant Experience	
Experience of satisfactory completion of Infrastructure Projects during the last ten (10) years a. For 1 No = 10 b. For 2 Nos = 12 c. For 3 Nos or more = 15 (Quantitative)(Doc Required)	15
Cumulative Worth of above Completed Infrastructure Projects presented for Qualification. (Maximum up to 04 Projects) b. =Rs. 2,000 million = 08 c. > Rs.2,000 million but ≤ Rs.2,500 million = 10 d. >Rs.2,500 million but ≤ Rs.3,000 million = 12 e. More than Rs. 3,000 million = 15 (Projects valuing more than Pak Rs.2000.00 million will be considered for Marking / score) (Quantitative)(Doc Required)	15
Financial Position	
Net worth as presented in the most recent financial statement/wealth statement a. = Rs.2,000 million = 08 b. > Rs.2,000 million but ≤ Rs.2,500 million = 10 c. > Rs.2,500 million but ≤ Rs.3,000 million = 12 d. More than Rs.3,000 million = 15 (Quantitative)(Doc Required)	15

Average Annual Turnover for the last 03 years e. = Rs.4,000 million = 10 f. >Rs.4,000 million but ≤ Rs.5,000 million = 12 g. More than Rs.5,000 million = 15 (Quantitative)(Doc Required)	15
Personnel Expertise	
Project Manager Bachelor/Master’s in civil engineering, registered as Professional Engineer with at-least Ten (10) years overall experience out of which 10 years relevant experience. (Required No. 1) (Quantitative)(Doc Required)	8
Procurement Officer/ Design/ Construction/ Engineer. Bachelor’s in civil engineering, registered as Professional Engineer and MBA in Supply Chain Management with at-least Five (05) years overall experience out of which five (05) years relevant experience and well aware of PPRA Rules (Required No. 1) (Quantitative)(Doc Required)	6
Sub-Engineer/ Scheduler Diploma in Associate Engineering (DAE)/ Civil with at-least ten (10) years’ experience in Infrastructure works (Req No. 2) (Quantitative)(Doc Required)	6
Minimum Machinery & Equipment (Owned by Firm).	
Graders (02 Nos.) 1 Concert Mixer (02 Nos.) 1 Compacter (02 Nos.) 1 Road Rollers (02 Nos.) 1 Dumpers (04 Nos.) 2 Heavy Loader (01No.) 1 Tractor Trolleys (04 Nos.) 2 Generator 30 KVA (01 No.) 1 (Quantitative)(Doc Required)	10
Methodology of performing work	
a) Excellent = 10 b) Very Good = 8 c) Good = 6 d) Fair = 4 (Quantitative)(Doc Required)	10

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)	Address: Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province). Schedule: 365 Days Quantity: 1/job	1/job	45000000 PKR

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Related Services :

No

Work Specifications and Market Rates

Jobs Without Lots :

Job: CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

Specifications / Requirements:

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
1	1	LEVEL CROSSING	NO	120	17966666.6	2156000000
					GRAND TOTAL:	Rs2,156,000,000.00

Scope of Work

Scope of Work

The scope of this project includes conversion of 30 un manned level crossings into manned level crossings. Conversion includes construction of road, duty hut, lever platforms & drains. Further, supply of gate leaves, signal items & P-Way items along with erection / installation is to be done by the bidder. All type of civil works, track works, signal & Telecommunications works and electrification works will be executed by the bidder as mentioned in the Priced BOQs in the financial proposal.

1. **Earthwork for Connecting Road Embankment of Level Crossings**

1.

1.1. **Execution of Earthwork**

1.1.1. Earthwork shall be done with approved quality of soil brought from outside of Railway Boundary to recoup track embankment for maintaining standard of road as per drawing given by the employer.

1.1.2. Earthwork includes removal of all shrubs, bushes and other organic material, leveling the final surface, sprinkling of water, maximum compaction by mechanical means up to the satisfaction of Engineer In-Charge.

1.1.3. Earthwork will be carried out in horizontal layers in the presence of department’s representative duly sprinkled and compacted by hand-driven roller or by mechanical means where possible.

1.1.4. Final layer of new earthwork should be compacted to achieve 90 to 95% maximum AASHTO dry Density by providing optimum moisture content, dressing and leveling according to designed section and grade complete in all respect.

1.1.5. Side slopes should be dressed up as per design and compacted properly.

1.1.6. The measurement of earthwork shall be taken in Cft and paid to the contractor as per X-Sections already signed by the Contractor and Engineer.

1.1.7. 05% deduction for shrinkage shall be made for the quantity of earthwork as per cross sections.

1.1.8. Unit of payment shall be per Cft.

1.1.9. Road will be completed in all respects with provisions of subbase, base and Premix asphalt as per AASHTO specifications.

1. **Track (P-Way) works**

1.1. Track works will be executed by the contractor as per drawing provided by the employer and instructions of the Engineer in charge.

1.2. All track material for conversion un-manned level crossing into manned level crossing according to the specifications will be arranged by the contractor at its own. However, the material not available in the market, will be provided by Railways at the cost of contractor (list of material required along with its cost is attached with financial proposal).

1.3. Laying of new track at Level Crossings with above mentioned track material, 30 cm ballast cushion, aligning packing and leveling complete in all respect.

1.4. All work will be done in accordance with approved Type Plan No. F-73 for Class-II Manned Level crossings.

1.5. Rail joints must be avoided within the length of length of level crossings.

1.6. On level crossing where density of road traffic is high, the contractor will provide a temporary diversion for road traffic and remove the same after completion of work.

2. **Signaling & Telecommunication Works**

2.1. All signaling and Telecommunication works will be executed by the contractor as per drawing provided by the employer and instructions of the Engineer in charge.

2.2. All signaling and Telecommunication material according to the specifications will be arranged by the contractor at its own. However, the material not available in the market, will be provided by Railways at the cost of contractor (list of material required along with its cost is attached with financial proposal).

2.3. All work will be done in accordance with approved Type Plan No. F-73 for Class-II Manned Level crossings.

3. **Civil & Electrical Works**

3.1. All Civil & Electrical works comprising construction of duty hut and lever platform, fencing, rod coupling along with drains, road works, supply & erecting of gate leaves, turnstile and solarization of duty hut etc will be carried out by the contractor in accordance with approved drawings and specifications attached with the bidding documents.

3.2. US Rails for gate post fencing, and rod coupling drains will be provided by Pakistan Railways.

4. **Agreement for diversion of traffic**

During the course of construction of L-xing, the temporary diversion be provided by contractor so that work road traffic can pass.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Price Schedule

For Individual Jobs

#	Job Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General

1. **Definitions**

1.1. Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

1.1.1. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

1.1.2. “The Contract” means an agreement enforceable by law;

1.1.3. “The Contract Price” means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;

1.1.4. “The Services” means the work to be performed by the Contractor pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Contractor’s Bid;

1.1.5. “Ancillary Services” means those services ancillary to the provision of Services, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Contractor covered under the Contract;

1.1.6. “GCC” means the General Conditions of Contract contained in this section;

1.1.7. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

1.1.8. **“**Day” means calendar day unless indicated otherwise;

1.1.9. “Effective Date” means the date on which this Contract comes into force and effect;

1.1.10. “The Contractor” means the individual or corporate body whose Bids to provide the Services has been accepted by the Procuring Agency;

1.1.11. “The Project Site,” where applicable, means the place or places named in Bid Data Sheet and technical Specifications;

1.1.12. “Government” means the Government of Pakistan;

1.1.13. “Local Currency” means the currency of Pakistan;

1.1.14. “In Writing” means communicated in written form with proof of receipt;

1.1.15. “Completion Date” means the date of completion of the Services by the Contractor as certified by the Procuring Agency;

1.1.16. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

1.1.17. “Party” means the Procuring Agency or the Contractor, as the case may be, and “Parties” means both of them;

1.1.18. "Service" means any object of procurement other than goods or works;

1.1.19. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Services.

2. **Applicable Law**

2.1. The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

3. **Language**

3.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Contractorand the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC** . Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

4. **Notices**

4.1. Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

5. **Location**

5.1. The Services shall be performed at such locations as the Procuring Agency may approve and as specified in **SCC.**

5.2. A {DOCUMENTS}

6. **Authorized Representatives / Authority of Member in charge**

6.1. Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Contractor may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

7. **Effectiveness of Contract**

7.1. This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the **SCC.**

8. **Commencement of Services**

8.1. The Contractor shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the **SCC.**

9. **Program schedule**

9.1. Before commencement of the Services, the Contractor shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

10. **Starting Date/Expiration Date**

10.1. The Contractor shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

10.2. Unless terminated earlier pursuant to Clause **GCC 14** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the **SCC.**

11. **Entire Agreement**

11.1. This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

12. **Modification**

12.1. Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any modification(s) or variation(s) made by the other Party.

12.2. In cases of any modification(s) or variation(s), the prior written consent of the Procuring Agency is required.

13. **Force Majeure**

13.1. **Definition**

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Contractor and which makes a Contractor’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

13.2. **No Breach of Contract**

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative

measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

13.3. **Extension of Time**
Any period within which a Contractor shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

13.4. **Payments**
During the period of their inability to perform the Services as a result of an event of Force Majeure, the Contractor shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

14. **Termination**

14.1. **By the Procuring Agency**
The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Contractor in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

14.1.1. If the Contractor fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

14.1.2. If the Contractor becomes (or, if the Contractor consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

14.1.3. If the Contractor fails to comply with any final decision reached as a result of arbitration proceedings;

14.1.4. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.1.5. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

14.2. **By the Contractor**
The Contractor may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

14.2.1. If the Procuring Agency fails to pay any money due to the Contractor pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Contractor that such payment is overdue;

14.2.2. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.2.3. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration;

14.2.4. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Contractor's notice specifying such breach.

C. Obligations of the Contractor

15. **General**

15.1. **Standard of Performance**

15.1.1. The Contractor shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Contractor shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties;

15.1.2. The Contractor shall employ and provide such qualified and experienced Experts and Sub-Contractors as are required to carry out the Services.

15.2. **Law Applicable to Services**

The Contractor shall perform the Services in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

16. **Conflict of Interests**

16.1. **Contractor Not to Benefit from Commissions and Discounts**

The remuneration of the Contractor shall constitute the Contractor's sole remuneration in connection with this Contract or the Services, and the Contractor shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Contractor shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

16.2. **Contractor and Affiliates Not to be Otherwise Interested in Project**

The Contractor agree that, during the term of this Contract and after its termination, the Contractor and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

16.3. **Prohibition of Conflicting Activities**
Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

16.3.1. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

16.3.2. during the term of this Contract, neither the Contractor nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

16.3.3. after the termination of this Contract, such other activities as may be specified in the **SCC.**

17. **Insurance to be Taken Out by the Contractor**

17.1. The Contractor(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Sub-contractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, and for the coverage, as shall be specified in the **SCC**; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums have been paid.

18. **Contractor's Actions Requiring Procuring Agency's Prior Approval**

18.1. The Contractor shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

18.1.1. appointing such members of the Personnel not provided by the Contractor;

18.1.2. changing the Program of activities; and

18.1.3. any other action that may be specified in the **SCC.**

19. **Reporting Obligations**

19.1. The Contractor shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

20. **Liquidated Damages**

20.1. **Payments of Liquidated Damages**
The Contractor shall pay liquidated damages to the Procuring Agency at the rate per day stated in the **SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the **SCC**. The Procuring Agency may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

20.2. **Correction for Over-payment**
If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The

Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in **SCC.**

20.3. **Lack of performance penalty**
If the Contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Contractor. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the Contractor

21. **Performance Guarantee**

21.1. Within the time stipulated in the acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape and amount **specified in SCC.**

21.2. The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

21.3. The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in **SCC**.

21.4. The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

22. **Sustainable Procurement**

22.1. The Contractor shall conform to the sustainable procurement contractual provisions, if and as specified in the **SCC.**

D. Contractor's Personnel

23. **Description of Personnel**

23.1. The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Contractor's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

24. **Removal and / or Replacement of Personnel**

24.1. Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Contractor, it becomes necessary to replace any of the Key Personnel, the Contractor shall provide as a replacement a person of equivalent or better qualifications.

24.2. If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Contractor shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

24.3. The Contractor shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

25. **Change in the Applicable Law**

25.1. If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the Services rendered by the Contractor, then the remuneration and reimbursable expenses otherwise payable to the Contractor under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the **SCC.**

26. **Services and Facilities**

26.1. The Procuring Agency shall make available to the Contractor and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference, at the times and in the manner specified in the Terms of Reference.

26.2. In case that such services, facilities and property shall not be made available to the Contractor, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Contractor for the performance of the Services, (ii) the manner in which the Contractor shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Contractor as a result thereof.

F. Payments to the Contractor

27. **Contract Price**

27.1. The price payable shall be in Pakistani Rupees unless otherwise specified in the **SCC**.

28. **Terms and Conditions of Payment**

28.1. Payments will be made to the Contractor according to the payment schedule stated in the **SCC** and as per actual invoice submitted by the Contractor.

28.2. Unless otherwise stated in the **SCC**, the advance payment shall be made against the provision by the Contractor of a bank guarantee for the same amount, and shall be valid for the period stated in the **SCC.** Any other payment shall be made after the conditions listed in the **SCC** for such payment have been met, and the Contractor have submitted an invoice to the Procuring Agency specifying the amount due.

29. **Quality Control Identifying Defects**

29.1. The principle and modalities of Inspection of the Services by the Procuring Agency shall be as indicated in the **SCC.** The Procuring Agency shall check the Contractor’s performance and notify him of any Defects that are

found. Such checking shall not affect the Contractor's responsibilities. The Procuring Agency may instruct the Contractor to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the **SCC**.

29.2. A {INSPECTION}

30. **Correction of Defects, and Lack of Performance Penalty**

30.1. The Procuring Agency shall give notice to the contractor of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

30.2. Every time notice a Defect is given; the contractor shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

30.3. If the contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the contractor will pay this amount, and a Penalty for Lack of Performance.

31. **Settlement of Disputes Amicable Settlement**

31.1. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

32. **Dispute Settlement**

32.1. **Arbitration**

If any dispute of any kind whatsoever shall arise between the procuring agency and the contractor in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the contract, the parties shall seek to resolve any such dispute or difference by mutual consultation. If the parties fail to resolve such a dispute or difference even after negotiations or mediation, then the dispute shall be referred within fourteen (14) days in writing by either party to the Arbitrator, with a copy to the other party.

Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with **GCC sub-clause 32.1**, shall be finally settled by arbitration. Arbitration may be commenced prior to or after completion of the Contract. Arbitration proceedings shall be conducted in accordance with Arbitration Act 1940. Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless otherwise agreed. The Procuring Agency shall continue to pay the Contractor any undisputed amounts due under the Contract during the resolution of any dispute.

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: Office of Chief Controller Purchase Office (Pakistan Railways), Chief Controller Purchase Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province).

The Supplier is:

The title of the subject procurement is: CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

Number of GC Clause 2

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 3

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 4

Notices:

The addresses for the notices are:

Procuring Agency:

Office of Chief Controller Purchase Office (Pakistan Railways), Chief Controller Purchase
Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province).
+92-300-267-0498
ccp@pakrail.gov.pk

Contractor/ Bidder:

[Name, address and telephone number]

The Contractor/ Bidder's Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 6.1

The Authorized Representatives are:

For the Procuring Agency:

Office of Chief Controller Purchase Office (Pakistan Railways), Chief Controller Purchase
Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province).
+92-300-267-0498
ccp@pakrail.gov.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 7

Effectiveness of the contract

The Contractor/Bidder shall be effective within ….. days from the date of signature of the Contract by both parties

Number of GC Clause 8

Commencement of Contract:

The Contractor/Bidder shall provide Non-Consultancy Services from the effective date of contract.

Number of GC Clause 10.2

Expiration of Contract:

The time period shall be ……

Number of GC Clause 14

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 16

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17.

Number of GC Clause 20

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.07%** to **10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 21

Performance Guarantee:

The amount of performance guarantee shall be **5.00%** of the contract price in acceptable form of **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**

Number of GC Clause 27

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 28

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 29

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

For conformance to specifications and performance parameters, through Prior to delivery inspection (Inspection Report by Procurement Committee / Inspection Team)

For successful operation at site after complete installation, testing and commissioning of the equipment (Installation, Testing and Commissioning Report by Procurement Committee / Inspection Team)

Delivery & Documents

Copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Insurance Certificate;

Manufacturer's or Supplier's Valid Warranty Certificate;

Inspection Certificate issued by the Nominated Inspection Agency (if any), and the Supplier's Factory Inspection Report;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

Number of GC Clause 31

Following is the guidance for Dispute Resolution

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract... (full clause unchanged)

ii. At future of negotiation the dispute shall be resolved through mediation...

iii. At failure of mediation, arbitration under Arbitration Act 1940...

iv. Cost sharing equally...

v. Proceedings may commence before/after completion...

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder shall be referred to arbitration under the laws of Pakistan including Arbitration Act 1940.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place shall be Islamabad. The award shall be final and binding.

Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P211590***

To: **Office of Chief Controller Purchase Office (Pakistan Railways), Chief Controller Purchase Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province).**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Office of Chief Controller Purchase Office (Pakistan Railways), Chief Controller Purchase Pakistan Railway Headquarter., Lahore City, Lahore (District), Lahore Division (Division), Punjab (Province).**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION) (*P211590*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Performance Guarantee Form

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

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Annexure

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BIDDING DOCUMENTS

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **BIDDING DOCUMENTS** (page number: 80)

FINANCIAL ANNEXURES

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **FINANCIAL ANNEXURES** (page number: 248)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

PAKISTAN RAILWAYS

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

TECHNICAL PROPOSAL

(To be submitted separately)

BIDDING DOCUMENTS

VOLUME-1

- INSTRUCTIONS TO BIDDERS
- BIDDING DATA
- FORM OF BID & APPENDICES TO BID
- FORMS
- GENERAL CONDITIONS OF CONTRACT, PART-I
- PARTICULAR CONDITIONS OF CONTRACT, PART-II
- SPECIAL PROVISIONS IN THE CONTRACT, PART III

November – 2026

Chief Controller of Purchase

P.R Headquarters Office, Empress Road, Lahore

Phone: 042-.....

PAKISTAN RAILWAYS

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

BIDDING DOCUMENTS

CONTENTS

VOLUME -1

i)	**Section -1**	**Invitation for Bids**
ii)	**Section -1I**	**Instructions to Bidders**
iii)	**Section-III**	**Bid Data Sheet**
iv)	**Section-IV**	**Form of Bid & Appendices to Bid**
v)	**Section-V**	**Standard bidding form**
vi)	**Section-VI**	**General Conditions of Contract, Part-I**
vii)	**Section-VII**	**Particular Conditions of Contract, Part-II**
viii)	**Section-VIII**	**Special Provisions In The Contract, Part III**

VOLUME -2 - Specifications and Drawings
VOLUME -3 - Financial Proposal /Bill of Quantities

INSTRUCTIONS
TO
BIDDERS

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INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with Bidding Data will not be part of the Contract and will cease to have effect once the contract is signed.)

A. GENERAL

IB.1 Scope of Bid

1.1 The Employer as defined in the Bidding Data hereinafter called "the Employer" wishes to receive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the Bidding Data herein after referred to as the "Works".

1.2 The successful bidder will be expected to complete the Works within the time specified in Appendix-A to Bid.

IB.2 Source of Funds

2.1 The Employer has applied for/received a loan/credit from the source (s) indicated in the Bidding Data in various currencies towards the cost of the project specified in the Bidding Data and it is intended that part of the proceeds of this loan/credit will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

IB.3 Eligible Bidders

3.1 This Invitation for Bids is open to all bidders meeting the following requirements:

a. Duly licensed by the Pakistan Engineering Council (PEC) in the category relevant to the value of the Works.

IB.4 One Bid per Bidder

4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

IB.5 Cost of Bidding

5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.6 Site Visit

6.1 The bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. All cost in this respect shall be at the bidder's own expense.

6.2 The bidders and any of their personnel or agents will be granted permission by the Employer to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the Employer, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents

7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.

1. Instructions to Bidders.
2. Bidding Data.
3. General Conditions of Contract, Part-I (GCC).
4. Particular Conditions of Contract, Part-II (PCC)
5. Special Provisions in the Contract, Part III.

6. Specifications
7. Form of Bid & Appendices to Bid.
8. Bill of Quantities (Appendix-D to Bid).
9. Form of Bid Security.
10. Form of Contract Agreement.
11. Forms of Performance Security and Mobilization Advance Guarantee/Bond.
12. Drawings.

7.2 The bidders are expected to carefully examine the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents

8.1 Any prospective bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification which he receives earlier than 28 days prior to the deadline for submission of bids.

Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.

IB.9 Amendment of Bidding Documents

9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.

9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub--Clause 7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Employer.

9.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.20

C. PREPARATION OF BIDS

IB.10 Language of Bid

10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the Employer shall be in the bid language stipulated in the Bidding Data and Particular Conditions of Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Accompanying the Bid

11.1 Each bidder shal

(a) Submit a written power of attorney authorizing the signatory of the bid to act for and on behalf of the bidder.

(b) Update the information indicated and listed in the Bidding Data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents which as a minimum, would include the following:

(i) Evidence of access to financial resources along with average annual construction turnover.

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(ii) Financial predictions for the current year and the two following years including the effect of known commitments.

(iii) Work commitments since prequalification.

(iv) Current litigation information; and

(i) Availability of critical equipment.

and

(c) Furnish a technical proposal considering the various Appendices to Bid specially the following:

Appendix-E to Bid	Proposed Construction Schedule
Appendix-F to Bid	Method of Performing the Work
Appendix-G to Bid	List of Major Equipment
Appendix-K to Bid	Organization Chart for Supervisory Staff

and other pertinent information such as mobilization program etc;

11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

(a) The bid and in case of a successful bid, the Form of Contract Agreement shall be signed so as to be legally binding on all partners;

(b) One of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;

(c) The partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;

(d) All partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para (b) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and

(e) A copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

IB.12 Bid Prices

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12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works in all respect as described in Sub-Clause 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.

12.2 The bidders shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.

12.3 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a bidder. Additional / reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 70.2 of the General Conditions of Contract Part-I.

12.4 The rates and prices quoted by the bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 70 of the Conditions of Contract. Price adjustment will be made as per details given in Appendix-C to Bid, under the said Clause.

IB.13 Currencies of Bid and Payment

13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.

13.2 The rates of exchange to be used by the bidder for currency conversion shall be the TT&OD Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date 28 days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the Contract.

IB.14 Bid Validity

14.1 Bids shall remain valid for the period stipulated in the Bidding Data after the Date of Bid Opening specified in Clause IB.23.

14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

15.1 Each bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the Bidding Data in Pak Rupees or an equivalent amount in a freely convertible currency.

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15.2 The Bid Security shall be, at the option of the bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favour of the Employer valid for a period 28 days beyond the Bid Validity date.

15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.

15.4 The bid securities of unsuccessful bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.

15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.

15.6 The Bid Security may be forfeited:

(a) If the bidder withdraws his bid except as provided in Sub-Clause 22.1;

(b) If the bidder does not accept the correction of his Bid Price pursuant to Sub-Clause 27.2 hereof; or

(c) In the case of successful bidder, if he fails within the specified time limit to:

(i) Furnish the required Performance Security; or

(ii) Sign the Contract Agreement.

IB.16 Alternate Proposals by Bidder

16.1 Should any bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his bid to be submitted in strict compliance with the Bidding Documents, submit any Alternate Proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided always that the total sum entered on the Form of Bid shall be that which represents complete compliance with the Bidding Documents.

16.2 Alternate Proposal(s), if any, of the lowest evaluated responsive bidder only may be considered by the Employer as the basis for the award of Contract to such bidder.

IB.17 Pre-Bid Meeting

17.1 The Employer may, on his own motion or at the request of any prospective bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting, if convened, is as stipulated in the Bidding Data. All prospective bidders or their authorized representatives shall be invited to attend such a pre-bid meeting.

17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Employer not later than seven (7) days before the proposed pre-bid meeting.

17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents listed in Sub-Clause 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.

17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

IB.18 Format and Signing of Bid

18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.

18.2 All appendices to Bid are to be properly completed, signed (where required) and be uploaded on EPADS 2.0 in manner as described in EPADS-2.0.

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18.3 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.

18.4 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

18.5 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.

D. SUBMISSION OF BIDS

IB.19 Sealing and Marking of Bids

19.1 Each bidder shall submit his bid as under:

(a) Complete Bid in all respect must be submitted on EPDAS – 2.0 on the required format.

(b) In addition to submission of complete Bid on EPADS, bidder is also required to submit the required documents in original in the Tender Box as mentioned in the Bidding Data, on the given schedule of bid submission.

19.2 The inner and outer envelopes shall:

(a) Be addressed to the Employer at the address provided in the Bidding Data;

(b) Bear the name and identification number of the contract as defined in the Bidding Data; and

(c) Provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data.

IB.20 Deadline for Submission of Bids

20.1 (a) Bids must be received by the Employer on EPADS – 2.0 and at the address specified not later than the time and date stipulated in the Bidding Data.

(b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.

(c) No other mode of bid submission is acceptable to the Employer except on EPADS – 2.0. However, the required documents to be submitted in original will only be acceptable.

20.2 The Employer may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.21 Late Bids

21.1 (a) Any bid received by the Employer other than EPADS – 2.0, will be considered as non-submission and will be returned unopened to such bidder if available.

(b) Delays in the mail, delays of person in transit, delivery of a bid to the wrong office, internet problem or some problem in submission of bid on EPADS – 2.0 in last hours, shall not be accepted as an excuse for failure to deliver a bid

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at the proper place and time. It shall be the bidder's responsibility to determine the way timely delivery of his bid will be accomplished either in person, by messenger or by mail.

IB.22 Modification, Substitution and Withdrawal of Bids

22.1 Any bidder may modify**,** substitute or withdraw his bid after bid submission on EPAD – 2.0 before opening date and time as per provisions in EPAD – 2.0

22.2 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

E. BID OPENING AND EVALUATION

IB.23 Bid Opening

23.1 The Employer will open the bids on EPADS – 2.0, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The bidders' representatives who are present shall sign a register evidencing their attendance.

23.2 Employer shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 23.3.

IB.24 Process to be Confidential

24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report which shall be done at least ten (10) days prior to issue of Letter of Acceptance. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of such bidder's bid.

IB.25 Clarification of Bids

25.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids in accordance with Clause IB.28.

IB.26 Examination of Bids and Determination of Responsiveness

26.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.

26.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security; and (iv) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the Works; (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the bidder's obligations under the Contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

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26.3 If a bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

IB.27 Correction of Errors

27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

(a) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and

(b) Where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted will govern and the unit rate will be corrected.

27.2 The amount stated in the Form of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub- Clause 15.6(b) hereof.

IB.28 Evaluation and Comparison of Bids

28.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.

28.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:

(a) Making any correction for errors pursuant to Clause IB.27;

(b) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and

(c) Making an appropriate adjustment for any other acceptable variation or deviation.

28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Bid evaluation.

28.4 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

F. AWARD OF CONTRACT

IB.29 Award

29.1 Subject to Clauses IB.30 and IB.34, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price**,** provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 29.2.

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29.2 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons therefore in writing. They shall form part of the records of that bid evaluation report.

IB.30 Employer's Right to Accept any Bid and to Reject any or all Bids

30.1 Notwithstanding Clause IB.29, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

IB.31 Notification of Award

31.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer will pay the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price").

31.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, Employer may have clarification meetings to get clarify any item in the bid evaluation report.

31.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the Employer and the bidder till signing of the formal Contract Agreement.

31.4 Upon furnishing by the successful bidder of a Performance Security, the Employer will promptly notify the other bidders that their Bids have been unsuccessful and return their bid securities.

IB.32 Performance Security

32.1 The successful bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Bidding Data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.

32.2 Failure of the successful bidder to comply with the requirements of Sub-Clause IB.32.1 or Clauses IB.33 or IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.33 Signing of Contract Agreement

33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful bidder the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.

33.2 The formal Agreement between the Employer and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the Employer.

IB.34 General Performance of the Bidders

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The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, interalia, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC). Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including blacklisting of such Bidder and debarring him from participation in future bidding for similar works.

IB.35 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

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BIDDING
DATA

BIDDING DATA

The following specific data for the Works to be bided shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Instructions to Bidders

Clause Reference

1.1 Name and address of the Employer:

The Employer is:

Chief Executive Officer

(Senior General Manager)

Pakistan Railways

Headquarters Office,

Empress Road, Lahore

(Hereinafter called the "Employer" which expression shall include the successors legal representatives and permitted assignees

The Employer's Representative is:

Deputy Chief Engineer / Track

Pakistan Railways

Headquarters Office,

Empress Road, Lahore

Name of the Project & Summary of the Works:

Conversion of One Hundred Twenty (120) Unmanned Level Crossings into Manned Level Crossings on (Rawalpindi, Lahore & Multan Division)

Summary of the Works

Unmanned level crossings are existing on entire railway network which are becoming the souring point for Pakistan Railways as well as road users. As per record, more than 35% of Railway accidents occur on unmanned level crossings due to collisions of road vehicles with running trains. Number of causalities of road users have been witnessed during the previous year's along with damages to Railway's rolling stock. Government of Punjab has been pleased to step forward for the conversion of most vulnerable unmanned level crossings into manned level crossings by sponsoring the conversion cost. In this context, Government of Punjab has approved a PC-1 at the cost of Rs. 9734 million for conversion of 177 unmanned level crossings into manned level crossings for the safeguard of precious lives of road users. In first phase, 30 unmanned level crossings have been sponsored for conversion into manned level crossings.

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2.1 **Name of the Borrower/ Source of Financing/ Funding Agency:**

THE GOVERNMENT OF THE PUNJAB.
T**ype of financing (Currency)**
Pak Rupees

3.1 **Eligible Bidders:**

Duly post qualified in accordance with Single – Stage Two Envelope bidding procedure as PPRA Rules.

7.1 Contents of Bidding Documents

Volume-I

- Instructions to Bidders (IB)
- Bidding Data (BD)
- Form of Bid & Appendices to Bid
- Forms
  - Bid Security, Performance Security, Contract Agreement
  - Mobilization Advance Guarantee/ Bond, Indemnity Bond
- General Condition of Contract, Part – I (GCC)
- Particular Conditions of Contract, Part – II (PCC)
- Special Provisions in the Contract, Part III

Volume-2

- Specifications and Drawings

Volume-3

- Financial Proposal /Bill of Quantities

8.1 Time limit for clarification:

The Employers' response will be made not later than seven (07) days prior to the date fixed for submission of Bid. No request for clarification(s) will be entertained if received by the Employer later than the date fixed for pre-bid meeting.

10.1 Bid language:
English

11.1 (b) Text of the sub clause is deleted and is replaced with "Annexure-1 to Bidding Data".

13.1 Delete the text of Sub-Clause 13.1 and Substitute:

The unit rates and the prices shall be quoted by the bidder entirely in Pakistani Rupee. The payments to the Contractor for the works done shall be made in Pakistani Rupee. Bidders expecting to incur expenditures in a currency or currencies other than Pakistani Rupee shall make their own arrangements for the same.

14.1 Period of Bid Validity:

One hundred twenty (120) Calendar days after Bid Opening Date

15.1 Amount of Bid Security:

The Bid Security shall be a fixed amount Rs. 45.00 million in the form of "Deposit at Call" or "Bank Guarantee" in favour of FA&CAO, Pakistan Railways, issued by a Scheduled Bank in Pakistan or from Foreign Bank duly counter guaranteed by a Scheduled Bank in Pakistan.
(To be attached with Technical Proposal)

17.1 Venue, time, and date of the pre-bid meeting:

Venue: Committee Room No. 2
Pakistan Railways, Headquarter Office,
Empress Road, Lahore.
Time: 11:00 am
Date: **……** November 2026

19.1 The text of Sub Clause is deleted and replaced to read as below: -

Each Bidder shall submit his Bid on EPADS – 2.0 along with required documents in original in Tender Box in a manner of Single Stage Two Envelope Procedure in the given schedule.

a) The basic information about the bidder along with original CDR duly sealed in an envelope.

19.2(a) Employer's address for the purpose of Bid submission:

Chief Controller of Purchase
Pakistan Railways, Headquarter Office,
Empress Road, Lahore.

19.2(b) Name and Number of the Contract:

Conversion of Thirty (120) Unmanned Level Crossings into Manned Level Crossings on (Rawalpindi, Lahore & Multan Division)

20. Deadline for Submission of Bids

20.1 (a) Deadline for submission of bids is **- November 2026 at 10:30 Hrs**.

23.1 The first line text "The Employer will open the bids at **11:00 am** made pursuant to Clause IB-22" is deleted and substituted to read as:
"The Employer will open the Technical Part of the Bids".

Venue, time, and date of bid opening:

Venue: Office of the Executive Engineer
Pakistan Railways, Headquarter Office,
Empress Road, Lahore.
Time: 11:00 am
Date: …….November 2026

23.4 The Sub Clause is deleted in its entirety

Following Sub Clauses are added:

23.5 The Employer shall evaluate the Technical Proposals of the Bidders in a manner prescribed in Annexure-I to Bidding Data, without reference to the price and reject any Technical Proposal which does not conform to the minimum qualifying score stated in Annexure-I to Bidding Data.
During the Technical Evaluation no amendment in the Technical Proposal shall be permitted.

23.6 After evaluation of Technical Part of bids, the Employer, shall announce and communicate the results of technical evaluation to the bidders through EPAD – 2.0 in advance within the bid validity period. Financial Part of the Bids of the technically qualified bidders will be opened on the specified date and time given on EPAD.

The bidders name, total bid price, any discount, bid modifications, substitution and withdrawals, the presence or absence of bid security and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of financial part of the bids.

23.7 Employer shall prepare the minutes of Opening of the Financial Part of the bids including the information disclosed, to bidders or other representatives who choose to attend the financial bids opening.

24. Process to be Confidential

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

25. Clarification of Bids

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

26. Examination of Bids and Determination of Responsiveness

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

27. Correction of Errors

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

28. Evaluation and Comparison of Bids

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

29. Award

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

30. Employer's Right to Accept any Bid and to Reject any or all Bids

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

31. Notification of Award

The phrase "Bid" or "Bids" wherever appear in the Clause shall be read as:
Financial Part of the "Bid" or "Bids".

32.1 Standard form and amount of Performance Security acceptable to the Employer:

The successful bidder shall furnish Performance Security for an amount equal to 05% of Contract Price stated in the "Letter of Acceptance" in shape of Unconditional Bank Guarantee or CDR / Banker's Cheque, issued by Schedule Bank in Pakistan.

A. TECHNICAL PROPOSAL

Pursuant to the Sub Clause 11-1 (b) Instructions to Bidders – the Bidder shall be liable to Post Qualification for being **"Eligible"** for participating in the Bidding Process which as mandated under Government of Pakistan PPRA Rule 2004 vide Rule No. 36 (b) shall be based upon **Single Stage Two Envelope Bidding Procedure**.

Withstanding to above the Bidder shall furnish, as part of its Bid following documents/ information as Technical Proposal for Post-qualification to establish its eligibility to Bid and to open its financial Bid for further evaluation:

i) Full name with location of Head Office and each branch office of Firm along with postal address, telephone, fax, e-mail, details of administrative setup. Status of Firm (Limited Company, Partnership or Proprietorship) with year of establishment, showing number of years in relevant field/ business, supported by documentary evidence.

ii) Firm's valid registration with income tax/ sales tax dept., NTN certificate, Tax Returns along with proof of payment of Income Tax, Sales Tax and Professional Tax during last three financial years.

iii) Copy of enlistment/ renewal for the year 2026 with PEC in financial category CA (no limit) and in specialized category of relevant works e.g CE-01, EE-07, EE-08 and CE-10.

iv) Firm's Financial Report for last three financial year including Balance Sheets, Profit and Loss Account Statements and Cash Flows duly audited by a Chartered Accountant Firm and financial projection for future.

v) Amount of Credit line available to the Firm from financial institution.

vi) Managerial and technical expertise of Firm including list of technical staff (who will be involved in this project) employed by the Firm along with CV, qualifications, experience, designation including PEC Reg. Nos. and their proof of employment with the Firm.

vii) List of general civil works/ projects (worth Rs.2000 Million and above) "completed" and in hand in the last five years by the firm including contract value, location, scope of work, start and actual date of completion (for completed works), expected date of completion (for works in hand) and cost overrun, time over run (if any), with reasons for cost overrun and time overrun) along with work orders, completion certificates, performance certificates from Client and Consultants with their addresses and contract details.

viii) List, quantity and present location of Equipment, Tools, Plants, Machinery, Manufacturing Facility, Formwork, Scaffolding, Crane and Transport Vehicle etc. owned by the Firm along with proof of ownership, which the Firm intends to make available for the relevant work.

ix) List of past and present litigation / arbitration / disputes (if any) against any Client, Consultant, Government, Semi-Government, Autonomous or state-owned organization showing its extent and results supported by documentary evidence.

x) Undertaking/ Affidavit on stamp paper in original that the bidders/ firms and any of its employees have never been blacklisted by any Government/ Semi Government, Autonomous or State-Owned Organization and their cases regarding black listing are not under trial by any court of Law

xi) Any additional information with documents in addition to the above that the Firm might like to furnish in support of their application.

B. CRITERIA FOR EVALUATION OF TECHNICAL PROPOSAL

1.1 GENERAL

1.1.1 Technical Evaluation will be based on all the criteria given in the succeeding paras regarding the Applicant's Particular experience in Railway Infrastructure Projects. Financial Position, Personnel Expertise, Machinery & Equipment and Methodology of performing work as demonstrated by the Applicant's responses in the forms attached to this Document.

1.1.2 If any firm/JV fails to fulfill the Mandatory Requirements, their bid shall not be considered for further processing and they shall be declared disqualified.

1.1.3 The minimum overall score needed by a Bidder to be considered for qualification should be **70** percent.

1.1.4 The Financial Bids shall only be opened of the technically qualified Bidders.

1.1.5 Bid Security of Rs.45.00 million (Rupees Eighty One Million Only) in the form of "Deposit at Call" or "Bank Guarantee" from any Scheduled Bank in Pakistan must be attached with Technical Proposal. In case of Bank Guarantee issued by a foreign bank then it must be duly counter guaranteed by a Scheduled Bank in Pakistan.

1.2 WEIGHTAGES

The resulting distribution of a total score of 100 points is as under:

1.	Relevant Experience	=	30	Points
2.	Financial Position	=	30	Points
3.	Personnel Expertise	=	20	Points
4.	Machinery & Equipment	=	10	Points
5.	Methodology of performing work	=	10	Points
	Total	**=**	**100**	**Points**

1.3 MANDATORY REQUIREMENTS

Following are the mandatory requirements which each Firm / Contractor/ JV Contractors has to meet with in order to be considered for qualification.

1.3.1 Registration with Pakistan Engineering Council (PEC)

For Construction:

a) The Contractor /Lead JV Partner must possess valid PEC registration certificate in financial category 'CA' (No Limit) and in discipline CE-01, EE-07, EE-08 & CE-10.

b) The JV Partners, other than lead JV Partner, must have the valid PEC Registration Certificate in Financial Category and Discipline where its JV Share falls.

c) Any firm applied for renewal of PEC registration must receipt issued by PEC.

d) Foreign entities can participate in the bidding process. In case, if the foreign bidders are not registered with PEC and Federal Board of Revenue (FBR), they should register themselves before submission of Bids signing of contract agreement.

Note:

- Copy of valid PEC registration certificates to be attached.

1.3.2 Registration with Tax Authorities

The Bidder, and JV Contractors, must possess valid registration certificate from income tax authority (i.e., the NTN certificate) and relevant sales tax authority, if applicable.

Note:

- Valid NTN certificate to be attached and relevant sales tax certificate, if applicable.
- Foreign entities if participating in the Bidding Process should submit tax certificate of their country duly attested by Pakistani Consulate/Pakistan High Commission of their country.

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1.3.3 General Construction Experience

For Construction:

For Single Entity /JV Contractor:

Firms/ Contractors/Lead JV Contractors have been in business of construction for at least for Ten (10) years. (Attach Constitutional Documents including Memorandum and Articles of Association, Certificate of Incorporation or other documents of constitution, documents of registration of the legal entity, etc.)

For Other Members of JV:

Firms /Contractors have been in business of construction for at least for Ten (10) years, (Attach Constitutional Documents including Memorandum and Articles of Association, Certificate of Incorporation or other documents of construction, documents of registration of the legal entity, etc.)

1.3.4 Infrastructure Work Experience

For Construction:

Firms/Contractors/Lead JV Contractors must have an experience of constructing at least One (1) Relevant procurement & construction project completed/ substantially completed in the past ten (10) years. The cost of project should not be less than PKR 2000.00 million (Pakistani Rupees Two Thousand million only).

Note:

Only those projects will be considered whose work order or completion/ substantially completion certificate, clearly indicating the name of the applicant as contractor and the cost of works.

For Other Members of JV:

JV member undertaking the construction works under JV Agreement must have an experience of completing at least one project/work in their relevant field and financial category in past Ten (10) years. The cost of which should not be less than Rs.500.00 million (Pakistani Rupees Five Hundred Million only). However, total worth such projects shall not be less than 2000.00 million.

Note:

Only those projects will be considered whose work order or completion/ substantially completion certificate, clearly indicating the name of the applicant as contractor and the cost of works.

1.3.5 Net Worth

Net worth of the firm/ lead JV shall be PKR 2,000,000,000/-(Pakistani Rupees Two Billion only) as presented in the most recent financial statement /wealth statement.

In case there is more than one (1) Contractor, all Contractors, **collectively**, must meet the criterion and Lead JV contractor should have a Net Worth not less than PKR 8,00,000,000/-(Pakistani Rupees Eight Hundred Million only).

(The JV Contractor (s) shall submit Audited Financial Statement and / or wealth statement to demonstrate their capability for this criteria).

1.3.6 Average Annual Construction Turnover

The firm/ contractor/ JV should have an average Annual Construction Turnover of PKR 4,000,000,000/-(Pakistani Rupees Four Billion) only for last three (3) years.

In case there is more than one (1) Contractor, all Contractors, **collectively**, must meet the criterion and Lead JV contractor should have an Average Annual Construction Turnover of more than PKR 1,000,000,000/-(Pakistani Rupees One Thousand Million only).

(The JV Contractor (s) shall submit Audited Balance Sheet/ FBR Tax Return).

1.4 EVALUATION PROCEDURE

1.4.1 Relevant Experience

1.4.1.1 Score will be awarded as per scoring criteria explained in Para 1.6.

1.4.1.2 Any delay, on the contractor's part, in completion and Liquidated Damages may result reduction in Score as per Para 1.6 (one mark will be deducted for each year delay of projects in consideration).

1.4.1.3 The information provided in Form A-1 will be used for marking.

1.4.2 Financial Position

1.4.2.1 The information provided in Form A-2 will be used for scoring.

1.4.2.2 Points will be awarded as per Scoring Criteria explained in Para 1.6.

1.4.3 Personnel Expertise

1.4.3.1 The Applicant must have in his employment suitably qualified personnel to fill the key management and specialist positions which should meet with the specified criteria provided in the Table 1-A.

1.4.3.2 For the person holding the position of Project Manager, minimum qualification shall be BSc / Masters in Civil Engineering and for Track Engineers & Procurement Manager, minimum qualification shall be B.Sc. Engineering in Civil.

1.4.3.3 Points will be awarded as per Scoring Criteria explained in Para 1.6.

1.4.3.4 The information provided in Form A-3 & A-4 will be used for scoring.

TABLE 1-A

Position	Total Experience (Years)
Project Manager	10
Procurement Manager	05
Sub-Engineer	10

1.4.4 Machinery & Equipment

1.4.4.1 The information provided in Form A-5 will be used for scoring.

1.4.4.2 Points will be awarded as per Scoring Criteria explained in Para 1.6.

1.5 FOR JOINT VENTURE BID

A Joint Venture submitting a bid must comply with the following requirements:-

1.5.1 The lead partner shall obtain not less than 50 percent of qualifying marks and share will not be less than 51%.

1.5.2 Additionally, the joint venture must collectively secure a minimum score of 65, for which purpose the relevant figures of each of the member shall be added together to arrive at the JV's total capacity.

1.5.3 Joint Venture partner/s shall also possess the relevant financial category and discipline of PEC in proportionate to the cost and nature of work to be carried out by him/them under JV agreement.

1.5.4 A copy of JV agreement shall be submitted with the bid providing the joint and individual liabilities with respect to the contract.

1.6 SCORING PROCEDURE

1.6.1 Relevant Experience

Sr. No.	Description	Maximum Score
1.	**<u>Infrastructure Projects (Completed/ Substantially Completed)</u>** Experience of satisfactory completion of Infrastructure Projects during the last ten (10) years a. For 1 No = 10 b. For 2 Nos = 12 c. For 3 Nos or more = 15	15

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2.	Cumulative Worth of above Completed Infrastructure Projects presented for Qualification. (Maximum up to 04 Projects) b. =Rs. 2,000 million = 08 c. > Rs.2,000 million but ≤ Rs.2,500 million = 10 d. >Rs.2,500 million but ≤ Rs.3,000 million = 12 e. More than Rs. 3,000 million = 15	15

Note: Projects valuing more than Pak Rs.2000.00 million will be considered for Marking / score.

1.6.2 Financial Position

Sr. No.	Description	Maximum Score
1.	Net worth as presented in the most recent financial statement/wealth statement a. = Rs.2,000 million = 08 b. > Rs.2,000 million but ≤ Rs.2,500 million = 10 c. > Rs.2,500 million but ≤ Rs.3,000 million = 12 d. More than Rs.3,000 million = 15	15
2.	Average Annual Turnover for the last 03 years e. = Rs.4,000 million = 10 f. >Rs.4,000 million but ≤ Rs.5,000 million = 12 g. More than Rs.5,000 million = 15	15

1.6.3 Personnel Expertise

The capabilities of staff to be deployed on the project will be assessed on the basis of requirements stated in Table 1-A of Para 1.4.3.

Sr. No.	Description	Required Nos.	Maximum Score
1.	**Project Manager** Bachelor/Master's in civil engineering, registered as Professional Engineer with at-least Ten (10) years overall experience out of which 10 years relevant experience.	1	8
2.	**Procurement Officer/ Design/ Construction/ Engineer.** Bachelor's in civil engineering, registered as Professional Engineer and MBA in Supply Chain Management with at-least Five (05) years overall experience out of which five (05) years relevant experience and well aware of PPRA Rules.	1	6
3.	**Sub-Engineer/ Scheduler** Diploma in Associate Engineering (DAE)/ Civil with at-least ten (10) years' experience in Infrastructure works	2	6

1.6.4 Minimum Machinery & Equipment (Owned by Firm).

Sr. No.	Description	Maximum Score
1	Graders (02 Nos.)	1
2	Concert Mixer (02 Nos.)	1
3	Compacter (02 Nos.)	1

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4	Road Rollers	(02 Nos.)	1
5	Dumpers	(04 Nos.)	2
6	Heavy Loader	(01No.)	1
7	Tractor Trolleys	(04 Nos.)	2
8	Generator 30 KVA	(01 No.)	1

Note: - The Contractor is required to submit the documentary evidence showing ownership or lease of above-mentioned machinery and equipment.

1.6.5 Methodology of performing work.

Sr. No.	Description	Maximum Score
1.	a) Excellent = 10 b) Very Good = 8 c) Good = 6 d) Fair = 4	10

2.0 PREPARATION OF APPLICATIONS

Cost of Preparation of Application

The Applicant shall bear all costs associated with the preparation and submission of application. The Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the qualification process.

Letter of Application.

The Applicant must submit Letter of Application, duly signed by Head of the Firm, along with all other documents. The specimen of such Letter of Application is provided with Tender documents.

General Information.

All individual Firms / Contactors are required to provide information, as explained in attached Appendix-1.

Experience Record

The Firms / Contractors are required to provide only the details of completed/substantially completed relevant projects during the last ten (10) years on Form A-1 whose completion cost is more than Rs.500.00 million.

2.5 Financial Position.

2.5.1 All Firms / Contractors are required to provide last three (3) years Audited Balance Sheet or Tax Returns.

2.5.2 All Firms / Contractors are required to provide information regarding financial record, as explained in attached Form A-2.

2.6 Key Personnel to be deployed on the project.

Using format of Form A-3, the Applicant is required to provide information regarding key personnel to be deployed for construction / execution of the Project. The data of their experience should be supplied on separate sheets, using format of Form A-4. Use separate sheet for each candidate.

2.7 Machinery & Equipment

The Applicants are required to provide information regarding machinery and equipment to be utilized on the project. A separate Form shall be prepared, using format of Form A-5.

2.8 Methodology of Performing Work.

The Applicant is required to provide in detail, a methodology of performing the project particularly “Tracks Rehabilitation Works”, as detailed in bidding documents.

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Appendix-1

General Information

All Firms /Contractors applying for Bid are requested to complete the following information. In case of JV this information should be provided for each partner separately.

1. General details of the Firm

1	Name of firm	
2	Head Office Address	
3	Telephone & Fax	
4	Email	
5	Contact Person	
5	Type of Organization	
6	Place of incorporation/registration	
7	Year of incorporation/registration	
8	Average Annual Turnover for the last 03 years.	

2. Details of Owners / Directors

Sr. No.	Name	Designation	Nationality
1			
2			
3			

3. P.E.C. registration (Valid PEC registration certificate be attached)

Field of Specialization approved by PEC	Financial category	Validity

4. National Tax Number (Valid NTN Certificate be attached)

NTN Number	

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Form A-1
Experience
(Completed Projects)

On separate pages using the following format, the Applicant is requested to list contracts of a relevant nature and complexity, which the Applicant has completed/substantially completed during the last ten (10) years, having cost more than Pak Rs.500.00 million in totality. Each partner of a Joint Venture should provide such details separately. (Please list only completed relevant projects during the last ten years)

Name of Firm …….

(Applicant or partner of a Joint Venture)

Use a separate sheet for each contract

1	Name of Contract		
2	Name of Employer		
3	Employer's Address		
4	Nature of works and special features relevant to the contract, for which the applicant wishes to be qualified:		
5	Contract role (check one) o Prime Contractor o Partner in Joint venture	o Management Contractor	o Sub-contractor
6	Amount of the total contracts/sub-contract/partner share (in Specified Currencies at Completion or at date of award for Current Contracts):		
7	Date of award		
8	Date of completion *****		
9	Contract was completed …… Months ahead/behind the original schedule (if behind, provide explanation)		
10	Contract was completed at Rs _____Million under/over original amount (if over, provide explanation)		
11	Indicate the approximate percent of total contract value of work undertaken by Sub-contract, if any, and the nature of such work.		

Commencement letter and satisfactory completion / substantial completion report from the client should be provided for each Project.

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Form A-2

Financial Position

All Firms/ Contractors are requested to complete the following Financial Information:

Financial Information	Previous three (03) years (in Million Rs)		
	2022-23	**2023-24**	**2024-25**
1. Total Assets			
2. Total Receipts			
3. Total Liabilities			
4. Current Liabilities			
5. Profit before Taxes			
6. Profit after Taxes			
7. Annual Turn Over			

Note: Audited Balance Sheet or Tax Returns should be provided, in support of above information.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Form A-3

Personnel Expertise

Name of Firm……...

(Applicant or partner of a Joint Venture)

For specific positions essential to contract management and implementation, the Applicants should provide the names of Personnel qualified to meet with the specified requirements, stated for each position.

The data on their experience should be supplied on separate sheets using standard Form A-4 for each candidate.

1	Title of Position	Project Manager (10 Years' experience)
	Name of Personnel	
2	Title of Position	Procurement Manager (05 Years' Experience)
	Name of Personnel	
3	Title of Position	Sub-Engineer-I (10 Years' Experience)
	Name of Personnel	
4	Title of Position	Sub-Engineer -II (10 Years' Experience)
	Name of Personnel	

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Form A- 4

Personnel Summary

Position proposed for the Project:		
Candidate Information	Name of Personnel	Date of Birth
	Professional Qualification	
Present employment	Name of employer	
	Present Job title of candidate	
	Address of employer	
	Telephone, Fax & email	
	Years with present employer	

Duration		Company / Project / Position / Relevant technical and management experience.
From	To	
		Company:
		Project:
		Position:
		Relevant Technical & Management Experience:
		Company:
		Project:
		Position:
		Relevant Technical & Management Experience:

(Please use additional sheets for providing complete professional history)

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Form A-5

Machinery & Equipment

Applicant shall provide adequate information to demonstrate clearly that he/ they have the capability to meet the requirements for each and all items of machinery, equipment and tools & plants listed in the Evaluation Criteria. A separate Form shall be prepared for each item of machinery and equipment or for alternative machinery and equipment proposed by the Applicant.

<table>
<tr><td colspan="4">Name of Machinery &Equipment:</td></tr>
<tr><td rowspan="2">Machinery and Equipment Information</td><td colspan="2">Name of manufacturer</td><td>Model and Power rating</td></tr>
<tr><td colspan="2">Capacity</td><td>Year of Manufacturing</td></tr>
<tr><td rowspan="2">Current Status</td><td colspan="3">Current location</td></tr>
<tr><td colspan="3">Details of current commitments</td></tr>
<tr><td>Name of Owner</td><td></td><td>Particulars of Leasing</td><td></td></tr>
</table>

Note: -

1. For owned / leased and rented equipment criteria will be as under
   a. Owned / Leased = Full Score
   b. Rented = 25% Reduction

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FORM OF BID
AND
APPENDICES TO BID

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

FB-1
FORM OF BID

The Form of Bid has been attached with Financial Proposal

BA-1
Appendix-A to Bid
SPECIAL STIPULATIONS
Clause
Conditions of Contract

1.	Engineer's Authority to issue Variation in emergency	2.1	2% of the Contract Price stated in the Letter of Acceptance.
2.	Amount of Performance Security	10.1	5% of Contract Price stated in the Letter of Acceptance against CDR or Unconditional Bank Guarantee from Scheduled Bank in Pakistan.
3.	Time for Furnishing Programme	14.1	Within 14 days from the Date of Receipt of Letter of Acceptance.
4.	Time for Commencement	41.1	Within 14 days from the Date of Receipt of Engineer's Notice to Commence which shall be issued within fourteen (14) days after Signing of Contract Agreement.
5.	Time for Completion	43.1, 48.2	**12 Months** from the date of receipt of Engineer's Notice to Commence.
6.	a) Amount of Liquidated Damages	47.1	0.01% of undone work for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
	b) Amount of Bonus	47.3	No bonus will be admissible
7.	Taking over of completed section	48.2	The completed work will be taking over by the employer block section wise.
8.	Defects Liability Period	49.1	365 Calendar days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	60.2	10% of the amount of Interim Payment Certificate.
10.	Limit of Retention Money	60.2	5% of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim Payment Certificates (Running Bills)	60.2	Rs. 50.0 million
12.	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Employer.	60.10	28 days from delivery of Engineer's Interim Payment Certificate to the Employer.
13.	Interest on late payments by the employer	60.10	No interest shall be paid.
14.	Mobilization Advance	-	15% Mobilization Advance will be granted against counter Bank Guarantee
15	Price adjustment	70	Applicable

BB-1
Appendix-B to Bid

FOREIGN CURRENCY REQUIREMENTS

NOT USED

BE-1

Appendix-E to Bid

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet Employer's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence works (Attach sheets as required for the specified form of Construction Schedule):

	Description	**Time for Completion**
a)	Whole Works	365 days

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Appendix-F to Bid
METHOD OF PERFORMING THE WORK

[The Bidder is required to submit a narrative outlining the method of performing the Work. The narrative should indicate in detail and include but not be limited to:]

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization at site the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BG-1

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

[The Bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the Works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BG-2

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
1	**2**	**3**	**4**	**5**	**6**	**7**
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BH-1

Appendix-H to Bid

CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with Clause 34 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
    a) Power (expected power load, etc.).
    b) Water (required amount and system proposed).
    c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
    a) Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
    b) Warehouses and Storage Areas (area required, type of construction and layout).
    c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).

1. Security Arrangements
2. Other Items Proposed (if any)

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BI-1

Appendix-I to Bid

LIST OF SUBCONTRACTORS

I/We intend to subcontract the following parts of the Work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	**Subcontractor (With Complete Address)**
1	**2**

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Appendix-J to Bid

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in thousands of Pakistani Rupees:

Quarter/ Year/ Period	**Amounts (Million Rs.)**
1	**2**
1st Quarter	
2nd Quarter	
3rd Quarter	
Bid Price	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BK-1

Appendix-K to Bid

ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BL-1
Appendix-L to Bid
(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No._____ Dated _____
Contract Value: _____
Contract Title: _____

…… [name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Pakistan Railway (PR) or any administrative subdivision or agency thereof or any other entity owned or controlled by PR through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from PR, except that which has been expressly declared pursuant hereto.

[name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PR and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PR under any law, contract or other instrument, be voidable at the option of PR.

Notwithstanding any rights and remedies exercised by PR in this regard, [name of Supplier] agrees to indemnify PR for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PR in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PR.

Name of Buyer: ……	Name of Seller/Supplier: ……
Signature: ……	Signature: ……
[Seal]	[Seal]

SCHEDULE OF ADJUSTMENT DATA

Schedule of Cost Indexation

[The Employer is to engage a professional with experience in construction costs and the inflationary effect on construction costs when preparing the contents of the Schedule of Cost Indexation. In the case of very large and/or complex works contracts, it may be necessary to specify several families of price adjustment formulae corresponding to the different works involved.]

(a). Adjustment Formula

The adjustment to the monthly statements in respect of changes in cost shall be determined from the following formula: -

$Pn=A + b\frac{Ln}{Lo} + c\frac{Mn}{Mo} + d\frac{En}{Eo} + \ldots\ldots\ldots\ldots$

Where:

Pn is a price adjustment factor to be applied to the amount for the payment of the work carried out in the subject month, determined in accordance with Paragraph 60.1 (a), and with Paragraphs 60.1 (b) and (e), where any variations and day work are not otherwise subject to adjustment;

A is a constant, specified in Appendix-C-1 to Bid, representing the non-adjustable portion in contractual payments;

b, c, d, etc. are weightages or coefficients representing the estimated proportion of each cost element (labour, cement and steel etc.) in the Works or sections thereof, net of Provisional Sums and Prime Cost, the sum of A, b, c, d, etc., shall be one;

Ln, Mn, En, etc., are the current cost indices or reference prices of the cost elements for month "n", determined pursuant to Sub-Clause 70.1 (d), applicable to each cost element; and.

Lo, Mo, Eo, etc., are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 70.1 (d).

(c) Sources of Indices and Weightages

The sources of indices shall be those listed in Appendix-C-1 to Bid, as approved by the Engineer. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightages and Source of Indices if different than those given in Appendix-C-1 to Bid, which shall be subject to approval by the Engineer.

(d) Base, Current, and Provisional Indices

The base cost indices or prices shall be those prevailing on the day 28 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 28 days prior to the last day of the period to which a particular monthly statement is related. If at any time the current indices are not available, provisional indices as determined by the Engineer will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.

(e) Adjustment after completion.

If the Contractor fails to complete the Works within the Time for Completion prescribed under Clause 43, adjustment of prices thereafter until the date of completion of the works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices, whichever is more favorable to the Employer, provided that if an extension of time is granted pursuant to Clause 44, the above provision shall apply only to adjustments made after the expiry of such extension of time.

(f) Weightages

The weightages for each of the factors of cost given in Appendix-C to Bid shall be adjusted if, in the opinion of the Engineer, they have been rendered unreasonable, unbalanced, or inapplicable as a result of varied or additional work executed or instructed under Clause 51. Such adjustment (s) shall have to be agreed in the variation order.

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PRICE ADJUSTMENT UNDER CLAUSE 70
OF CONDITIONS OF CONTRACT

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 70 shall be as follows:

(To be filled by the Employer)

Cost Element	Description	Weightages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.25	As detailed below
(ii)	Unskilled Labour	0.20	
(iii)	Cement – in bags	0.10	
(iv)	Steel all types (M. Ton)	0.30	
(v)	High Speed Diesel (HSD) (per lit)	0.15	
	Total	1.0	

Notes:

1) The base cost indices or prices of above specified materials shall be those applying 28 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the date the bill is submitted.

2) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.

Applicable Index:

1. **For High Speed (HSD)**

Source for price of HSD shall be Pakistan State Oil (PSO) using rate of HSD stated for Maximum Ex Depot Sale Price for sale through retail Outlets.

2. **For Steel**

Source for price of steel shall be rates of Pakistan Steel Mill for Billets/Blooms, Prime 150x150 mm (excluding sales tax and excise duty)

3. **For Cement**

Source for price of cement shall be rates of Pakistan Bureau of Statistics, Monthly Price Indices.

4. **For Un-Skilled Labour**

Source for price of Un-skilled Labour shall be rates of Pakistan Bureau of Statistics, Price Statistics, Monthly Price Indices.

Note:- Price adjustment shall be applicable only to civil works, including roads, fabrication of gates, fencing, duty huts etc.

FORMS

BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE/BOND

BS-1
BID SECURITY
(**Bank Guarantee)**

Security Executed on _____
(Date)
Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)
Name of Principal (Bidder) with Address _____
_____
Penal Sum of Security Rupees . _____(Rs. _____)
Bid Reference No. _____
KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto
_____
(hereinafter called the 'Employer') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.
THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for_____(Particulars of Bid) to the said Employer; and
WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Employer, conditioned as under:

(1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived;
(2) that the Bid Security of unsuccessful Bidders will be returned by the Employer after expiry of its validity or upon signing of the Contract Agreement; and
(3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to Clause 15.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

BS-2

PROVIDED THAT the Surety shall forthwith pay the Employer the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.
PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Employer forthwith and without any reference to the Principal (Bidder) or any other person

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS: Signature _____

1. _____ Name _____

_____ Title _____

Corporate Secretary (Seal) Corporate Guarantor (Seal)

2. _____

_____

Name, Title & Address

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PS-1

FORM OF PERFORMANCE SECURITY
(Bank Guarantee)

Guarantee No._____
Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address:_____
(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address:_____
_____

Penal Sum of Security (express in words and figures)_____
_____

Letter of Acceptance No. _____Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the
_____ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ _____ (Name of Contract) for the _____

_____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

PS-2

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer’s designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

_____
Guarantor (Bank)

Witness:

1. _____ Signature _____

_____ Name _____
Corporate Secretary (Seal)

Title _____

2. _____

_____ _____
Name, Title & Address Corporate Guarantor (Seal)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

CA-1
FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of_____(month) 20_____ between
_____ (hereafter called the "Employer") of the one part and _____ (hereafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted a 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.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
   (a) The Contract Agreement;
   (b) The Letter of Acceptance;
   (c) The completed Form of Bid;
   (d) Special Stipulations (Appendix-A to Bid);
   (e) The Particular Conditions of Contract – Part II;
   (f) The General Conditions – Part I;
   (g) The Specifications - Special Provisions
   (h) The priced Bill of Quantities (Appendix-D to Bid);
   (i) The completed Appendices to Bid (B, C, E to M);
   (j) The Drawings;
   (k) The Specifications – Technical Provisions.
   (l) _____ (any other)

3. 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 defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, 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.

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IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor	Signature of Employer
_____	_____
(Seal)	(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:	Witness:
_____	_____
(Name, Title and Address)	(Name, Title and Address)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

MG-1
MOBILIZATION ADVANCE GUARANTEE/BOND

Guarantee No._____ Date _____

WHEREAS _____(hereinafter called the 'Employer') has entered into a Contract for _____

(Particulars of Contract)

with _____ (hereinafter called the "Contractor').

AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Rupees _____ (Rs _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Employer has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, _____

(Scheduled Bank in Pakistan or Insurance Company acceptable to the Employer)

(hereinafter called the “Guarantor”) at the request of the Contractor and in consideration of the Employer agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Employer for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Employer shall be the sole and final judge, on the part of the Contractor, shall be given by the Employer to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____whichever is earlier.

(Date)

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees _____(Rs _____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

MG-2

GUARANTOR

1. Signature _____
2. Name _____
3. Title _____

WITNESS

1. _____

_____

Corporate Secretary (Seal)

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2. _____ _____

(Name Title & Address) Corporate Guarantor(Seal)

IB-1

INDEMNITY BOND

FOR SECURED ADVANCE

AGAINST MATERIALS BROUGHT AT SITE

(ON RS.100 NON-JUDICIAL STAMP PAPER)

This Deed of Indemnity is issued by M/s. _____ _____ (Name of the Contractor) in favor of M/s._____ (Name of the Employer).

Whereas_____ (hereinafter called the Employer) has paid the Secured Advance against the cost of material through any Bank or like agency by any other method by virtue of the terms of the contract existing between the parties. The details of the material and their price for which secured advance are being sought for the period _____till consumption of the material is as under:-

1. _____ at Rs._____ _____ per _____ =Rs.
2. _____ at Rs._____ per _____ =Rs.
3. _____ at Rs._____ per _____ =Rs.
4. _____ at Rs._____ per _____ =Rs.

THEREFORE THIS DEED OF INDEMNITY WITHNESSETH AS FOLLOWS:

I/We _____ of M/s. _____ do hereby indemnify M/s _____ for all losses due to thefts, arson, pilferage, loss due to flood and inundation, shortage, deterioration and depreciation etc. through any act of Man or God or slump in the Market of any or all the materials financed or paid by the Employer on our request for financing payment against material.

I/We_____ shall indemnify _____ against any or all claims, action damages arising out of or resulting to the said material.

I/We _____ further declare that we will faithfully abide by the above declaration and solemnly affirm that we will not remove, sell, pilferage any of the materials against which M/s _____ has paid us such a secured advance and will not pledge the same with any Bank, Finance Corporation, Firm, Company, Individual or the like agency or create any change whereon in any from what so ever.

I/We_____do hereby also declare that in the event of my/our infringement of the declaration made above _____ will be entitled to forfeit all such material and also proceed against me/us according to the relevant clause pertaining to breach of contract and further invoke the power or seek any remedies secured of _____ under the contract Agreement signed with us or otherwise available under law.

Place_____ Dated _____

Contractor _____

Notes on the Conditions of Contract

The Conditions of Contract comprise three parts:

(a) Part I - General Conditions of Contract

(b) Part II - Particular Conditions of Contract

(c) Part III - Special Previsions in the Contract

Over the years, a number of "model" General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation Internationale des Ingenieurs-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the fourth edition, 1987, reprinted in 1992 with further amendments).

The FIDIC Conditions of Contract have been prepared for an ad measurement (unit price or unit rate) type of contract, and cannot be used without major modifications for other types of contract, such as lump sum, turnkey, or target cost contracts.

The standard text of the General Conditions of Contract chosen must be retained intact to facilitate its reading and interpretation by bidders and its review by the Client. Any amendments and additions to the General Conditions, specific to the contract in hand, should be introduced in the Particular Conditions of Contract.

The use of standard conditions of contract for all civil Works will ensure comprehensiveness of coverage, better balance of rights or obligations between Employer and Contractor, general acceptability of its provisions, and savings in time and cost for bid preparation and review, leading to more economic prices.

The successful bidders is required to purchase original copy directly from FIDIC (International Federation of Consulting Engineers) having following address and submit to the employer for attaching with contract agreement.

International Federation of Consulting Engineers (FIDIC)

World Trade Center II
P.O. Box 311
1215 Geneva 15
Switzerland
Telephone: +41 22 799 49 00
Fax: +41 22 799 49 01

E-mail: fidic.pub@fidic.org – FIDIC.org/bookshop]

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

CONDITIONS OF CONTRACT

PART-I, GENERAL CONDITIONS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

FEDERATION INTERNATIONAL DES INGENIEURS-CONSEILS

CONDITIONS OF CONTRACT FOR WORKS OF CIVIL ENGINEERING CONSTRUCTION

PART I GENERAL CONDITIONS

FOURTH EDITION 1987
Reprinted 1988 with editorial amendments
Reprinted in 1992 with further amendments

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PART I - GENERAL CONDITIONS
Definitions and Interpretation

1.1 **Definitions**

In the Contract (as hereinafter defined) the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires:

(a) (i) "Employer" means the person named as such in Part II of these Conditions and the legal successors in title to such person, but not (except with the consent of the Contractor) any assignee of such person.

(ii) "Contractor" means the person whose tender has been accepted by the Employer and the legal successors in title to such person, but not (except with the consent of the Employer) any assignee of such person.

(iii) "Subcontractor" means any person named in the Contract as a Subcontractor for a part of the Works or any person to whom a part of the Works has been subcontracted with the consent of the Engineer and the legal successors in title to such person, but not any assignee of any such person.

(iv) "Engineer" means the person appointed by the Employer to act as Engineer for the purposes of the Contract and named as such in Part II of these Conditions.

(v) "Engineer's Representative" means a person appointed from time to time by the Engineer under Sub-Clause 2.2.

(b) (i) "Contract" means these Conditions (Parts I and II), the Specification, the Drawings, the Bill of Quantities, the Tender, the Letter of Acceptance, the Contract Agreement (if completed) and such further documents as may be expressly incorporated in the Letter of Acceptance or Contract Agreement (if completed).

(ii) "Specification" means the specification of the Works included in the Contract and any modification thereof or addition thereto made under Clause 51 or submitted by the Contractor and approved by the Engineer.

(iii) "Drawings" means all drawings, calculations and technical information of a like nature provided by the Engineer to the Contractor under the Contract and all drawings, calculations, samples, patterns, models, operation and maintenance manuals and other technical information of a like nature submitted by the Contractor and approved by the Engineer.

(iv) "Bill of Quantities" means the priced and completed bill of quantities forming part of the Tender.

(v) "Tender" means the Contractor's priced offer to the Employer for the execution and completion of the Works and the remedying of any defects therein in accordance with the provisions of the Contract, as accepted by the Letter of Acceptance.

(vi) "Letter of Acceptance" means the formal acceptance by the Employer of the Tender.

(vii) "Contract Agreement" means the contract agreement (if any) referred to in Sub-Clause 9.1.

(viii) "Appendix to Tender" means the appendix comprised in the form of Tender annexed to these Conditions.

(c) (i) "Commencement Date" means the date upon which the Contractor receives the notice to commence issued by the Engineer pursuant to Clause 41.

(ii) "Time for Completion" means the time for completing the execution of and passing the Tests on Completion of the Works or any Section or part thereof as stated in the Contract (or as extended under Clause 44) calculated from the Commencement Date.

(d) (i) "Tests on Completion" means the tests specified in the Contract or otherwise agreed by the Engineer and the Contractor which are to be made by the Contractor before the Works of any Section or part thereof are taken over by the Employer.

(ii) "Taking-Over Certificate" means a certificate issued pursuant to Clause 48.

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(e) (i) "Contract Price" means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works and the remedying of any defects therein in accordance with the provisions of the Contract.

(ii) "Retention Money" means the aggregate of all monies retained by the Employer pursuant to Sub-Clause 60.2(a).

(iii) “Interim Payment Certificate” means any certificate of payment issued by the Engineer other than the Final Payment Certificate.

(iv) “Final Payment Certificate” means the certificate of payment issued by the Engineer pursuant to Sub-Clause 60.8.

(f) (i) "Works" means the Permanent Works and the Temporary Works or either of them as appropriate.

(ii) "Permanent Works" means the permanent works to be executed (including Plant) in accordance with the Contract

(iii) "Temporary Works" means all temporary works of every kind (other than Contractor's Equipment) required in or about the execution and completion of the Works and the remedying of any defects therein.

(iv) "Plant" means machinery, apparatus and the like intended to form or forming part of the Permanent Works.

(v) "Contractor's Equipment" means all appliances and things of whatsoever nature (other than Temporary Works) required for the execution and completion of the Works and the remedying of any defects therein, but does not include Plant, materials or other things intended to form or forming part of the Permanent Works.

(vi) "Section" means a part of the Works specifically identified in the Contract as a Section.

(vii) "Site" means the places provided by the Employer where the Works are to be executed and any other places as may be specifically designated in the Contract as forming part of the Site.

(g) (i) "cost" means all expenditure properly incurred or to be incurred, whether, on or off the Site, including overhead and other charges properly allocable thereto but does not include any allowance for profit.

(ii) "day" means calendar day.

(iii) "foreign currency" means a currency of a country other than that in which the Works are to be located.

(iv) "writing" means any hand-written, type-written, or printed communication, including telex, cable and facsimile transmission.

1.2 **Headings and Marginal Notes**

The headings and marginal notes in these Conditions shall not be deemed part thereof or be taken into consideration in the interpretation or construction thereof or of the Contract.

1.3 **Interpretation**

Words importing persons or parties shall include firms and corporations and any organization having legal capacity.

1.4 **Singular and Plural**

Words importing the singular only also include the plural and vice versa where the context requires.

1.5 **Notices, Consents, Approvals, Certificates and Determinations**

Wherever in the Contract provision is made for the giving or issue of any notice, consent, approval, certificate or determination by any person, unless otherwise specified such notice, consent, approval, certificate or determination shall be in writing and the words "notify", "certify or "determine" shall be construed accordingly. Any such consent, approval, certificate or determination shall not unreasonably be withheld or delayed.

Engineer and Engineer's Representative

2.1 **Engineer's Duties and Authority**

(a) The Engineer shall carry out the duties specified in the Contract.

(b) The Engineer may exercise the authority specified in or necessarily to be implied from the Contract, provided, however, that if the Engineer is required, under the terms of his appointment

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by the Employer, to obtain the specific approval of the Employer before exercising any such authority, particulars of such requirements shall be set out in Part II of these Conditions. Provided further that any requisite approval shall be deemed to have been given by the Employer for any such authority exercised by the Engineer.

(c) Except as expressly stated in the Contract, the Engineer shall have no authority to relieve the Contractor of any of his obligations under the Contract.

2.2 **Engineer's Representative**

The Engineer's Representative shall be appointed by and be responsible to the Engineer and shall carry out such duties and exercise such authority as may be delegated to him by the Engineer under Sub-Clause 2.3.

2.3 **Engineer's Authority to Delegate**

The Engineer may from time to time delegate to the Engineer's Representative any of the duties and authorities vested in the Engineer and he may at any time revoke such delegation. Any such delegation or revocation shall be in writing and shall not take effect until a copy thereof has been delivered to the Employer and the Contractor.

Any communication given by the Engineer's Representative to the Contractor in accordance with such delegation shall have the same effect as though it had been given by the Engineer. Provided that:

(a) any failure of the Engineer's Representative to disapprove any work, materials or Plant shall not prejudice the authority of the Engineer to disapprove such work, materials or Plant and to give instructions for the rectification thereof; and

(b) if the Contractor questions any communication of the Engineer's Representative he may refer the matter to the Engineer who shall confirm, reverse or vary the contents of such communication.

2.4 **Appointment of Assistants**

The Engineer or the Engineer's Representative may appoint any number of persons to assist the Engineer's Representative in the carrying out of his duties under Sub-Clause 2.2. He shall notify to the Contractor the names, duties and scope of authority of such persons. Such assistants shall have no authority to issue any instructions to the Contractor save in so far as such instructions may be necessary to enable them to carry out their duties and to secure their acceptance of materials, Plant or workmanship as being in accordance with the Contract, and any instructions given by any of them for those purposes shall be deemed to have been given by the Engineer's Representative.

2.5 **Instructions in Writing**

Instructions given by the Engineer shall be in writing, provided that if for any reason the Engineer considers it necessary to give any such instruction orally, the Contractor shall comply with such instruction. Confirmation in writing of such oral instruction given by the Engineer, whether before or after the carrying out of the instruction, shall be deemed to be an instruction within the meaning of this Sub-Clause. Provided further that if the Contractor, within 7 days, confirms in writing to the Engineer any oral instruction of the Engineer and such confirmation is not contradicted in writing within 7 days by the Engineer, it shall be deemed to be an instructions of the Engineer.

The provisions of this Sub-Clause shall equally apply to instructions given by the Engineer's Representative and any assistants of the Engineer or the Engineer's Representative appointed pursuant to Sub-Clause 2.4.

2.6 **Engineer to Act Impartially**

Wherever, under the Contract, the Engineer is required to exercise his discretion by:

(a) giving his decision, opinion or consent,

(b) expressing his satisfaction or approval,

(c) determining value, or

(d) otherwise taking action which may affect the rights and obligations of the Employer or the Contractor

he shall exercise such discretion impartially within the terms of the Contract and having regard to all the circumstances. Any such decision, opinion, consent expression of satisfaction, or approval, determination of value or action may be opened up, reviewed or revised as provided in Clause 67.

Assignment and Subcontracting

3.1 **Assignment of Contract**

The Contractor shall not, without the prior consent of the Employer (which consent, notwithstanding the provisions of Sub-Clause 1.5, shall be at the sole discretion of the Employer), assign the Contract or any part thereof, or any benefit or interest therein or thereunder, otherwise than by:

(a) a charge in favour of the Contractor's bankers of any monies due or to become due under the Contract, or
(b) assignment to the Contractor's insurers (in cases where the insurers have discharged the Contractor's loss or liability) of the Contractor's right to obtain relief against any other party liable.

4.1 **Subcontracting**

The Contractor shall not subcontract the whole of the Works. Except where otherwise provided by the Contract, the Contractor shall not subcontract any part of the Works without the prior consent of the Engineer. Any such consent shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any Subcontractor, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents servants or workmen.

Provided that the Contractor shall not be required to obtain such consent for:

(a) the provision of labour,
(b) the purchase of materials which are in accordance with the standards specified in the Contract,
(c) the subcontracting of any part of the Works for which the Subcontractor is named in the Contract.

4.2 **Assignment of Subcontractors' Obligations**

In the event of a Subcontractor having undertaken towards the Contractor in respect of the work executed, or the goods, materials, Plant or services supplied by such Subcontractor, any continuing obligation extending for a period exceeding that of the Defects Liability Period under the Contract, the Contractor shall at any time, after the expiration of such Period, assign to the Employer, at the Employer's request and cost, the benefit of such obligation for the unexpired duration thereof.

Contract Documents

5.1 **Language/s and Law**

There is stated in Part II of these Conditions:

(a) the language or languages in which the Contract documents shall be drawn up, and

(b) the country or state the law of which shall apply to the Contract and according to which the Contract shall be construed.

If the said documents are written in more than one language, the language according to which the Contract shall be construed and interpreted is also stated in Part II of these Conditions, being therein designated the "Ruling Language".

5.2 **Priority of Contract Documents**

The several documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Engineer who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows:

(1) The Contract Agreement (if completed);
(2) The Letter of Acceptance;
(3) The Tender;
(4) Part II of these Conditions;
(5) Part I of these Conditions; and
(6) Any other document forming part of the Contract.

6.1 **Custody and Supply of Drawings and Documents**

The Drawings shall remain in the sole custody of the Engineer, but two copies thereof shall be provided to the Contractor free of charge. The Contractor shall make at his own cost any further copies required by him. Unless it is strictly necessary for the purposes of the Contract, the Drawings, Specification and other documents provided by the Employer or the Engineer shall not, without the consent of the Engineer, be used or communicated to a third party by the Contractor. Upon issue of the Defects Liability Certificate, the Contractor shall return to the Engineer all Drawings, Specification and other documents provided under the Contract.

The Contractor shall supply to the Engineer four copies of all Drawings, specification and other documents submitted by the Contractor and approved by the Engineer in accordance with Clause 7, together with a reproducible copy of any material which cannot be reproduced to an equal standard by photocopying. In addition the Contractor shall supply such further copies of such Drawings, Specification and other documents as the Engineer may request in writing for the use of the Employer, who shall pay the cost thereof.

6.2 **One Copy of Drawings to be Kept on Site**

One copy of the Drawings, provided to or supplied by the Contractor as aforesaid, shall be kept by the Contractor on the Site and the same shall at all reasonable times be available for inspection and use by the Engineer and by any other person authorised by the Engineer in writing.

6.3 **Disruption of Progress**

The Contractor shall give notice to the Engineer, with a copy to the Employer, whenever planning or execution of the Works is likely to be delayed or disrupted unless any further drawing or instruction is issued by the Engineer within a reasonable time. The notice shall include details of the drawing or instruction required and of why and by when it is required and of any delay or disruption likely to be suffered if it is late.

6.4 **Delay and Cost of Delay of Drawings**

If, by reason of any failure or inability of the Engineer to issue, within a time reasonable in all the circumstances, any drawing or instruction for which notice has been given by the Contractor in accordance with Sub-Clause 6.3, the Contractor suffers delay and/or incurs costs then the Engineer shall, after due consultation with the Employer and the Contractor, determine:

(a) any extension of time to which the Contractor is entitled under Clause 44, and

(b) the amount of such costs, which shall be added to the Contract Price, and shall notify the Contractor accordingly, with a copy to the Employer.

6.5 **Failure by Contractor to Submit Drawings**

If the failure or inability of the Engineer to issue any drawings or instructions is caused in whole or in part by the failure of the Contractor to submit Drawings, Specification or other documents which he is required to submit under the Contract, the Engineer shall take such failure by the Contractor into account when making his determination pursuant to Sub-Clause 6.4.

7.1 **Supplementary Drawings and Instructions**

The Engineer shall have authority to issue to the Contractor, from time to time, such supplementary Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution

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and completion of the Works and the remedying of any defects therein. The Contractor shall carry out and be bound by the same.

7.2 **Permanent Works Designed by Contractor**

Where the Contract expressly provides that part of the Permanent Works shall be designed by the Contractor, he shall submit to the Engineer, for approval:

(a) such drawings, specifications, calculations and other information as shall be necessary to satisfy the Engineer as to the suitability and adequacy of that design, and

(b) operation and maintenance manuals together with drawings of the Permanent Works as completed, in sufficient detail to enable the Employer to operate, maintain, dismantle, reassemble and adjust the Permanent Works incorporating that design. The Works shall not be considered to be completed for the purposes of taking over in accordance with Clause 48 until such operation and maintenance manuals together with drawings on completion have been submitted to and approved by the Engineer.

7.3 **Responsibility Unaffected by Approval**

Approval by the Engineer, in accordance with Sub-Clause 7.2, shall not relieve the Contractor of any of his responsibilities under the Contract.

General Obligations

8.1 **Contractor's General Responsibilities**

The Contractor shall, with due care and diligence, design (to the extent provided for by the Contract), execute and complete the Works and remedy any defects therein in accordance with the provisions of the Contract. The Contractor shall provide all superintendence, labour, material, Plant, Contractor's Equipment and all other things, whether of a temporary or permanent nature, required in and for such design, execution, completion and remedying of any defects, so far as the necessity for providing the same is specified in or is reasonably to be inferred from the Contract.

8.2 **Site Operations and Methods of Construction**

The Contractor shall take full responsibility for the adequacy, stability and safety of all Site operations and methods of construction. Provided that the Contractor shall not be responsible (except as stated hereunder or as may be otherwise agreed) for the design or specification of Permanent Works, or for the design or specification of any Temporary Works not prepared by the Contractor. Where the Contract expressly provides that part of the Permanent Works shall be designed by the Contractor, he shall be fully responsible for that part of such Works, notwithstanding any approval by the Engineer.

9.1 **Contract Agreement**

The Contractor shall, if called upon so to do, enter into and execute the Contract Agreement, to be prepared and completed at the cost of the Employer, in the form annexed to these Conditions with such modification as may be necessary.

10.1 **Performance Security**

If the Contract requires the Contractor to obtain security for his proper performance of the Contract, he shall obtain and provide to the Employer, such security within 28 days after the receipt of the Letter of Acceptance, in the sum stated in the Appendix to Tender. When providing such security to the

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Employer, the Contractor shall notify the Engineer of so doing. Such security shall be in the form annexed to these Conditions or in such other form as may be agreed between the Employer and the Contractor. The institution providing such security shall be subject to the approval of the Employer. The cost of complying with the requirements of this Clause shall be borne by the Contractor, unless the Contract otherwise provides.

10.2 **Period of Validity of Performance Security**

The performance security shall be valid until the Contractor has executed and completed the Works and remedied any defects therein in accordance with the Contract. No claim shall be made against such security after the issue of the Defects Liability Certificate in accordance with Sub-Clause 62.1 and such security shall be returned to the Contractor within 14 days of the issue of the said Defects Liability Certificate.

10.3 **Claims under Performance Security**

Prior to making a claim under the performance security the Employer shall, in every case, notify the Contractor stating the nature of the default in respect of which the claim is to be made.

11.1 **Inspection of Site**

The Employer shall have made available to the Contractor, before the submission by the Contractor of the Tender, such data on hydrological and sub-surface conditions as have been obtained by or on behalf of the Employer from investigations undertaken relevant to the Works but the Contractor shall be responsible for his own interpretation thereof.

The Contractor shall be deemed to have inspected and examined the Site and its surroundings and information available in connection therewith and to have satisfied himself (so far as is practicable, having regard to considerations of cost and time) before submitting his Tender, as to:

(a) the form and nature thereof, including the sub-surface conditions,

(b) the hydrological and climatic conditions,

(c) the extent and nature of work and materials necessary for the execution and completion of the Works and the remedying of any defects therein, and

(d) the means of access to the Site and the accommodation he may require,
and, in general, shall be deemed to have obtained all necessary information, subject as above mentioned, as to risks, contingencies and all other circumstances which may influence or affect his Tender.

The Contractor shall be deemed to have based his Tender on the data made available by the Employer and on his own inspection and examination, all as aforementioned.

12.1 **Sufficiency of Tender**

The Contractor shall be deemed to have satisfied himself as to the correctness and sufficiency of the Tender and of the rates and prices stated in the Bill of Quantities, all of which shall, except insofar as it is otherwise provided in the Contract, cover all his obligations under the Contract (including those in respect of the supply of goods, materials, Plant or services or of contingencies for which there is a

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Provisional Sum) and all matters and things necessary for the proper execution and completion of the Works and the remedying of any defects therein.

12.2 **Not Foreseeable Physical Obstructions or Conditions**

If, however, during the execution of the Works the Contractor encounters physical obstructions or physical conditions, other than climatic conditions on the Site, which obstructions or conditions were, in his opinion, not foreseeable by an experienced contractor, the Contractor shall forthwith give notice thereof to the Engineer, with a copy to the Employer. On receipt of such notice, the Engineer shall if in his opinion such obstructions or conditions could not have been reasonably foreseen by an experienced contractor, after due consultation with the Employer and the Contractor, determine:

(a) any extension of time to which the Contractor is entitled under Clause 44, and

(b) the amount of any costs which may have been incurred by the Contractor by reason of such obstructions or conditions having been encountered, which shall be added to the Contract Price,

and shall notify the Contractor accordingly, with a copy to the Employer. Such determination shall take account of any instruction which the Engineer may issue to the Contractor in connection therewith, and any proper and reasonable measures acceptable to the Engineer which the Contractor may take in the absence of specific instructions from the Engineer.

13.1 **Work to be in Accordance with Contract**

Unless it is legally or physically impossible, the Contractor shall execute and complete the Works and remedy any defects therein in strict accordance with the Contract to the satisfaction of the Engineer. The Contractor shall comply with and adhere strictly to the Engineer's instructions on any matter, whether mentioned in the Contract or not, touching or concerning the Works. The Contractor shall take instructions only from the Engineer (or his delegate).

14.1 **Programme to be Submitted**

The Contractor shall, within the time stated in Part II of these Conditions after the date of the Letter of Acceptance, submit to the Engineer for his consent a programme, in such form and detail as the Engineer shall reasonably prescribe, for the execution of the Works. The Contractor shall, whenever required by the Engineer, also provide in writing for his information a general description of the arrangements and methods which the Contractor proposes to adopt for the execution of the Works.

14.2 **Revised Programme**

If at any time it should appear to the Engineer that the actual progress of the Works does not conform to the programme to which consent has been given under Sub-Clause 14.1, the Contractor shall produce, at the request of the Engineer, a revised programme showing the modifications to such programme necessary to ensure completion of the Works within the Time for Completion.

14.3 **Cash Flow Estimate to be Submitted**

The Contractor shall, within the time stated in Part II of these Conditions after the date of the Letter of Acceptance, provide to the Engineer for his information a detailed cash flow estimate, in quarterly periods, of all payments to which the Contractor will be entitled under the Contract and the Contractor shall subsequently supply revised cash flow estimates at quarterly intervals, if required to do so by the Engineer.

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14.4 **Contractor not Relieved of Duties or Responsibilities**

The submission to and consent by the Engineer of such programmes or the provision of such general descriptions or cash flow estimates shall not relieve the Contractor of any of his duties or responsibilities under the Contract.

15.1 **Contractor's Superintendence**

The Contractor shall provide all necessary superintendence during the execution of the Works and as long thereafter as the Engineer may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract. The Contractor, or a competent and authorised representative approved of by the Engineer, which approval may at any time be withdrawn, shall give his whole time to the superintendence of the Works. Such authorised representative shall receive, on behalf of the Contractor, instructions from the Engineer.

If approval of the representative is withdrawn by the Engineer, the Contractor shall, as soon as is practicable, having regard to the requirement of replacing him as hereinafter mentioned, after receiving notice of such withdrawal, remove the representative from the Works and shall not thereafter employ him again on the Works in any capacity and shall replace him by another representative approved by the Engineer.

16.1 **Contractor's Employees**

The Contractor shall provide on the Site in connection with the execution and completion of the Works and the remedying of any defects therein:

(a) only such technical assistants as are skilled and experienced in their respective callings and such foremen and leading hands as are competent to give proper superintendence of the Works, and

(b) such skilled, semi skilled and unskilled labour as is necessary for the proper and timely fulfilling of the Contractor's obligations under the Contract.

16.2 **Engineer at Liberty to Object**

The Engineer shall be at liberty to object to and require the Contractor to remove forthwith from the Works any person provided by the Contractor who, in the opinion of the Engineer, misconducts himself, or is incompetent or negligent in the proper performance of his duties, or whose presence on Site is otherwise considered by the Engineer to be undesirable, and such person shall not be again allowed upon the Works without the consent of the Engineer. Any person so removed from the Works shall be replaced as soon as possible.

17.1 **Setting-out**

The Contractor shall be responsible for:

(a) the accurate setting-out of the Works in relation to original points, lines and levels of reference given by the Engineer in writing,

(b) the correctness, subject as above mentioned of the position, levels dimensions and alignment of all parts of the Works, and

(c) the provision of all necessary instruments, appliances and labour in connection with the foregoing responsibilities.

If, at any time during the execution of the Works, any error appears in the position, levels, dimensions or alignment of any part of the Works, the Contractor, on being required so to do by the Engineer, shall, at his own cost, rectify such error to the satisfaction of the Engineer, unless such error is based on incorrect data supplied in writing by the Engineer, in which case the Engineer shall determine an addition to the Contract Price in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer.

The checking of any setting-out or of any line or level by the Engineer shall not in any way relieve the Contractor of his responsibility for the accuracy thereof and the Contractor shall carefully protect and preserve all bench-marks, sight-rails, pegs and other things used in setting-out the Works.

18.1 **Boreholes and Exploratory Excavation**

If, at any time during the execution of the Works, the Engineer requires the Contractor to make boreholes or to carry out exploratory excavation, such requirement shall be the subject of an instruction in accordance with Clause 51, unless an item or a Provisional Sum in respect of such work is included in the Bill of Quantities.

19.1 **Safety, Security and Protection of the Environment**

The Contractor shall, throughout the execution and completion of the Works and the remedying of any defects therein:

(a) have full regard for the safety of all persons entitled to be upon the Site and keep the Site (so far as the same is under his control) and the Works (so far as the same are not completed or occupied by the Employer) in an orderly state appropriate to the avoidance of danger to such persons,

(b) provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when and where necessary or required by the Engineer or by any duly constituted authority, for the protection of the Works or for the safety and convenience of the public or others, and

(c) take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

19.2 **Employer's Responsibilities**

If under Clause 31 the Employer shall carry out work on the Site with his own workmen he shall, in respect of such work:

(a) have full regard to the safety of all persons entitled to be upon the Site, and

(b) keep the Site in an orderly state appropriate to the avoidance of danger to such persons.

If under Clause 31 the Employer shall employ other contractors on the Site he shall require them to have the same regard for safety and avoidance of danger.

20.1 **Care of Works**

The Contractor shall take full responsibility for the care of the Works and materials and Plant for incorporation therein from the Commencement Date until the date of issue of the Taking-Over

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Certificate for the whole of the Works, when the responsibility for the said care shall pass to the Employer. Provided that:

(a) if the Engineer issues a Taking-Over Certificate for any Section or part of the Permanent Works the Contractor shall cease to be liable for the care of that Section or part from the date of issue of the Taking-Over Certificate, when the responsibility for the care of that Section or part shall pass to the Employer, and

(b) the Contractor shall take full responsibility for the care of any outstanding Works and materials and Plant for incorporation therein which he undertakes to finish during the Defects Liability Period until such outstanding Works have been completed pursuant to Clause 49.

20.2 **Responsibility to Rectify Loss or Damage**

If any loss or damage happens to the Works, or any part thereof, or materials or Plant for incorporation therein, during the period for which the Contractor is responsible for the care thereof, from any cause whatsoever, other than the risks defined in Sub-Clause 20.4, the Contractor shall, at his own cost, rectify such loss or damage so that the Permanent Works conform in every respect with the provisions of the Contract to the satisfaction of the Engineer. The Contractor shall also be liable for any loss or damage to the Works occasioned by him in the course of any operations carried out by him for the purpose of complying with his obligations under Clauses 49 and 50.

20.3 **Loss or Damage Due to Employer's Risks**

In the event of any such loss or damage happening from any of the risks defined in Sub-Clause 20.4, or in combination with other risks, the Contractor shall, if and to the extent required by the Engineer, rectify the loss or damage and the Engineer shall determine an addition to the Contract Price in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer. In the case of a combination or risks causing loss or damage any such determination shall take into account the proportional responsibility of the Contractor and the Employer.

20.4 **Employer's Risks**

The Employer's risks are:

(a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,

(b) rebellion, revolution, insurrection, or military or usurped power, or civil war,

(c) ionising radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,

(d) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,

(e) riot, commotion or disorder, unless solely restricted to employees of the Contractor or of his Subcontractor and arising from the conduct of the Works,

(f) loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract,

(g) loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible, and

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(h) any operation of the forces of nature against which an experienced contractor could not reasonably have been expected to take precautions.

21.1 **Insurance of Works and Contractor's Equipment**

The Contractor shall, without limiting his or the Employer's obligations and responsibilities under Clause 20, insure:

(a) the Works, together with materials and Plant for incorporation therein, to the full replacement cost (the term "cost" in this context shall include profit),

(b) an additional sum of 15 per cent of such replacement cost, or as may be specified in Part II of these Conditions, to cover any additional costs of and incidental to the rectification of loss or damage including professional fees and the cost of demolishing and removing any part of the Works and of removing debris of whatsoever nature, and

(c) the Contractor's Equipment and other things brought onto the Site by the Contractor, for a sum sufficient to provide for their replacement at the Site.

21.2 **Scope of Cover**

The insurance in paragraphs (a) and (b) of Sub-Clause 21.1 shall be in the joint names of the Contractor and the Employer and shall cover:

(a) the Employer and the Contractor against all loss or damage from whatsoever cause arising, other than as provided in Sub-Clause 21.4, form the start of work at the Site until the date of issue of the relevant Taking-Over Certificate in respect of the Works or any Section or part thereof as the case may be, and

(b) the Contractor for his liability:

(i) during the Defects Liability Period for loss or damage arising from a cause occurring prior to the commencement of the Defects Liability Periods, and

(ii) for loss or damage occasioned by the Contractor in the course of any operations carried out by him for the purpose of complying with his obligations under Clauses 49 and 50.

21.3 **Responsibility for Amounts not Recovered**

Any amounts not insured or not recovered from the insurers shall be borne by the Employer or the Contractor in accordance with their responsibilities under Clause 20.

21.4 **Exclusions**

There shall be no obligation for the insurances in Sub-Clause 21.1 to include loss or damage caused by:

(a) war, hostilities (where war be declared or not), invasion, act of foreign enemies,

(b) rebellion, revolution, insurrection, or military or usurped power, or civil war,

(c) ionising, radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof, or

(d) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds.

22.1 **Damage to Persons and Property**

The Contractor shall, except if and so far as the Contract provides otherwise, indemnify the Employer against all losses and claims in respect of:

(a) death of or injury to any person, or

(b) loss of or damage to any property (other than the Works),

which may arise out of or in consequence of the execution and completion of the Works and the remedying of any defects therein, and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto, subject to the exceptions defined in Sub-Clause 22.2.

22.2 **Exceptions**

The "exceptions" referred to in Sub-Clause 22.1 are:

(a) the permanent use or occupation of land by the Works, or any part thereof,

(b) the right of the Employer to execute the Works, or any part thereof, on, over, under, is or through any land,

(c) damage to property which is the unavoidable result of the execution and completion of the Works, or the remedying of any defects therein, in accordance with the Contract, and

(d) death of or injury to persons or loss of or damage to property resulting from any act or neglect of the Employer, his agents servants or other contractors, not being employed by the Contractor, or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or, where the injury or damage was contributed to by the Contractor, his servants or agents, such part of the said injury or damage as may be just and equitable having regard to the extent of the responsibility of the Employer, his servants or agents or other contractors for the injury or damage.

22.3 **Indemnity by Employer**

The Employer shall indemnify the Contractor against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the exceptions defined in Sub-Clause 22.2

23.1 **Third Party Insurance (including Employer's Property)**

The Contractor shall, without limiting his or the Employer's obligation and responsibilities under Clause 22, insure, in the joint names of the Contractor and the Employer, against liabilities for death of or injury to any person (other than as provided in Clause 24) or loss of or damage to any property (other than the Works) arising out of the performance of the Contract, other than the exceptions defined in paragraphs (a), (b) and (c) of Sub-Clause 22.2.

23.2 **Minimum Amount of Insurance**

Such insurance shall be for at least the amount stated in the Appendix to Tender.

23.3 **Cross Liabilities**

The insurance policy shall include a cross liability clause such that the insurance shall apply to the Contractor and to the Employer as separate insureds.

24.1 **Accident or Injury to Workmen**

The Employer shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor or any Subcontractor, other than death or injury resulting from any act or default of the Employer, his agents or servants. The Contractor shall indemnify and keep indemnified the Employer against all such damages and compensation, other than those for which the Employer is liable as aforesaid, and against all claims, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto.

24.2 **Insurance Against Accident to Workmen**

The Contractor shall insure against such liability and shall continue such insurance during the whole of the time that any persons are employed by him on the Works. Provided that, in respect of any persons employed by any Subcontractor, the Contractor's obligations to insure as aforesaid under the Sub-Clause shall be satisfied if the Subcontractor shall have insured against the liability in respect of such persons in such manner that the Employer is indemnified under the policy, but the Contractor shall require such Subcontractor to produce to the Employer, when required, such policy of insurance and the receipt for the payment of the current premium.

25.1 **Evidence and Terms of Insurances**

The Contractor shall provide evidence to the Employer prior to the start of work at the Site that the insurances required under the Contract have been effected and shall, within 84 days of the Commencement Date, provide the insurance policies to the Employer. When providing such evidence and such policies to the Employer, the Contractor shall notify the Engineer of so doing. Such insurance policies shall be consistent with the general terms agreed prior to the issue of the Letter of Acceptance. The Contractor shall effect all insurances for which he is responsible with insurers and in terms approved by the Employer.

25.2 **Adequacy of Insurances**

The Contractor shall notify the insurers of changes in the nature, extent or programme for the execution of the Works and ensure the adequacy of the insurances at all times in accordance with the terms of the Contract and shall, when required, produce to the Employer the insurance policies in force and the receipts for payment of the current premiums.

25.3 **Remedy on Contractor's Failure to Insure**

If the Contractor fails to effect and keep in force any of the insurances required under the Contract, or fails to provide the policies to the Employer within the period required by Sub-Clause 25.1, then and in any such case the Employer may effect and keep in force any such insurances and pay any premium as may be necessary for that purpose and from time to time deduct the amount so paid from any monies due or to become due to the Contractor, or recover the same as a debt due from the Contractor.

25.4 **Compliance with Policy Conditions**

In the event that the Contractor or the Employer fails to comply with conditions imposed by the insurance policies effected pursuant to the Contract, each shall indemnify the other against all losses and claims arising from such failure.

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26.1 **Compliance with Statutes, Regulations**

The Contractor shall conform in all respects, including by the giving of all notices and the paying of all fees, with the provisions of:

(a) any National or State Statute, Ordinance, or other Law, or any regulation, or bye-law of any local or other duly constituted authority in relation to the execution and completion of the Works and the remedying of any defects therein, and

(b) the rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the Works,

and the Contractor shall keep the Employer indemnified against all penalties and liability of every kind for breach of any such provisions. Provided always that the Employer shall be responsible for obtaining any planning, zoning or other similar permission required for the Works to proceed and shall indemnify the Contractor in accordance with Sub-Clause 22.3.

27.1 **Fossil**

All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the Site shall, as between the Employer and the Contractor, be deemed to be the absolute property of the Employer. The Contractor shall take reasonable precautions to prevent his workmen or any other persons from removing or damaging any such article or thing and shall, immediately upon discovery thereof and before removal, acquaint the Engineer of such discovery and carry out the Engineer's instructions for dealing with the same. If, by reason of such instructions, the Contractor suffers delay and/or incurs costs then the Engineer shall, after due consultation with the Employer and the Contractor, determine:

(a) any extension of time to which the Contractor is entitled under Clause 44, and
(b) the amount of such costs, which shall be added to the Contract Price,
and shall notify the Contractor accordingly, with a copy to the Employer.

28.1 **Patent Rights**

The Contractor shall save harmless and indemnify the Employer from and against all claims and proceedings for or on account of infringement of any patent rights, design trademark or name or other protected rights in respect of any Contractor's Equipment, materials or Plant used for or in connection with or for incorporation in the Works and from and against all damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto, except where such infringement results from compliance with the design or Specification provided by the Engineer.

28.2 **Royalties**

Except where otherwise stated, the Contractor shall pay all tonnage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay or other materials required for the Works.

29.1 **Interference with Traffic and Adjoining Properties**

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All operations necessary for the execution and completion of the Works and the remedying of any defects therein shall, so far as compliance with the requirements of the Contract permits, be carried on so as not to interfere unnecessarily or improperly with:

(a) the convenience of the public, or

(b) the access to, use and occupation of public or private roads and footpaths to or of properties whether in the possession of the Employer or of any other person.

The Contractor shall save harmless and indemnify the Employer in respect of all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of, or in relation to, any such matters insofar as the Contractor is responsible therefor.

30.1 **Avoidance of Damage to Roads**

The Contractor shall use every reasonable means to prevent any of the roads or bridges communicating with or on the routes to the Site from being damaged or injured by any traffic of the Contractor or any of his Subcontractors and, in particular, shall select routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic as will inevitably arise from the moving of materials, Plant, Contractor's Equipment or Temporary Works from and to the Site shall be limited, as far as reasonably possible, and so that no unnecessary damage or injury may be occasioned to such roads and bridges.

30.2 **Transport of Contractor's Equipment or Temporary Works**

Save insofar as the Contract otherwise provides, the Contractor shall be responsible for and shall pay the cost of strengthening any bridges or altering or improving any road communicating with or on the routes to the Site to facilitate the movement of Contractor's Equipment or Temporary Works and the Contractor shall indemnify and keep indemnified the Employer against all claims for damage to any such road or bridge caused by such movement, including such claims as may be made directly against the Employer, and shall negotiate and pay all claims arising solely out of such damage.

30.3 **Transport of Materials or Plant**

If, notwithstanding Sub-Clause 30.1, any damage occurs to any bridge or road communicating with or on the routes to the Site arising from the transport of materials or Plant, the Contractor shall notify the Engineer with a copy to the Employer, as soon as he becomes aware of such damage or as soon as he receives any claim from the authority entitled to make such claim. Where under any law or regulation the haulier of such materials or Plant is required to indemnify the road authority against damage the Employer shall not be liable for any costs, charges or expenses in respect thereof or in relation thereto. In other cases the Employer shall negotiate the settlement of and pay all sums due in respect of such claim and shall indemnify the Contractor in respect thereof and in respect of all claims, proceedings damages, costs, charges and expenses in relation thereto. Provided that if and so far as any such claim or part thereof is, in the opinion of the Engineer, due to any failure on the part of the Contractor to observe and perform his obligations under Sub-Clause 30.1, then the amount determined by the Engineer, after due consultation with the Employer and the Contractor, to be due to such failure shall be recoverable from the Contractor by the Employer and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer. Provided also that the Employer shall notify the Contractor whenever a settlement is to be negotiated and, where any amount may be due from the Contractor, the Employer shall consult with the Contractor before such settlement is agreed.

30.4 **Waterborne Traffic**

Where the nature of the Works is such as to require the use by the Contractor of waterborne transport the foregoing provisions of this Clause shall be construed as though "road" included a lock, dock, sea wall or other structure related to a waterway and "vehicle" included craft, and shall have effect accordingly.

31.1 **Opportunities for Other Contractors**

The Contractor shall, in accordance with the requirements of the Engineer, afford all reasonable opportunities for carrying out their work to:

(a) any other contractors employed by the Employer and their workmen,

(b) the workmen of the Employer, and

(c) the workmen of any duly constituted authorities who may be employed in the execution on or near the Site of any work not included in the Contract or of any contract which the Employer may enter into in connection with or ancillary to the Works.

31.2 **Facilities for Other Contractors**

If, however, pursuant to Sub-Clause 31.1 the Contractor shall, on the written request of the Engineer:

(a) make available to any other contractor, or to the Employer or any such authority, any roads or ways for the maintenance of which the Contractor is responsible,

(b) permit the use, by any such, of Temporary Works or Contractor's Equipment on the Site, or

(c) provide any other service of whatsoever nature for any such,

the Engineer shall determine an addition to the Contract Price in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer.

32.1 **Contractor to Keep Site Clear**

During the execution of the Works the Contractor shall keep the Site reasonably free from all unnecessary obstruction and shall store or dispose of any Contractor's Equipment and surplus materials and clear away and remove from the Site any wreckage, rubbish or Temporary Works no longer required.

33.1 **Clearance of Site on Completion**

Upon the issue of any Taking-Over Certificate the Contractor shall clear away and remove from that part of the Site to which such Taking-Over Certificate relates all Contractor's Equipment, surplus materials, rubbish and Temporary Works of every kind, and leave such part of the Site and Works clean and in a workmanlike condition to the satisfaction of the Engineer. Provided that the Contractor shall be entitled to retain on Site, until the end of the Defects Liability Period, such materials, Contractor's Equipment and Temporary Works as are required by him for the purpose of fulfilling his obligations during the Defects Liability Period.

Labour

34.1 **Engagement of Staffs and Labour**

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

35.1 **Returns of Labour and Contractor's Equipment**

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such information respecting Contractor's Equipment as the Engineer may require.

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Materials, Plant and Workmanship

36.1 **Quality of Materials, Plant and Workmanship**

All materials, Plant and workmanship shall be:

(a) of the respective kinds described in the Contract and in accordance with the Engineer's instructions, and

(b) subjected from time to time to such tests as the Engineer may require at the place of manufacture, fabrication or preparation, or on the Site or at such other place or places as may be specified in the Contract, or at all or any of such places.

The Contractor shall provide such assistance, labour, electricity, fuels, stores, apparatus and instruments as are normally required for examining, measuring and testing any materials or Plant and shall supply samples of materials, before incorporation in the Works, for testing as may be selected and required by the Engineer.

36.2 **Cost of Samples**

All samples shall be supplied by the Contractor at his own cost if the supply thereof is clearly intended by or provided for in the Contract.

36.3 **Cost of Tests**

The cost of making any test shall be borne by the Contractor if such test is:

(a) clearly intended by or provided for in the Contract, or

(b) particularised in the Contract (in cases only for a test under load or of a test to ascertain whether the design of any finished or partially finished work is appropriate for the purposes which it was intended to fulfil) in sufficient detail to enable the Contractor to price or allow for the same in his Tender.

36.4 **Cost of Tests not Provided for**

If any test required by the Engineer which is:

(a) not intended by or provided for,

(b) (in the cases above mentioned) not so particularised, or

(c) (through so intended or provided for) required by the Engineer to be carried out at any place other than the Site or the place of manufacture, fabrication or preparation of the materials or Plant tested,

shows the materials, Plant or workmanship not to be in accordance with the provisions of the Contract to the satisfaction of the Engineer, then the cost of such test shall be borne by the Contractor, but in any other case Sub-Clause 36.5 shall apply.

36.5 **Engineer's Determination where Tests not Provided for**

Where, pursuant to Sub-Clause 36.4, this Sub-Clause applies the Engineer shall, after due consultation with the Employer and the Contractor, determine:

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(a) any extension of time of which the Contractor is entitled under Clause 44, and

(b) the amount of such costs, which shall be added to the Contract Price,

and shall notify the Contractor accordingly, with a copy to the Employer.

37.1 **Inspection of Operations**

The Engineer, and any person authorised by him, shall at all reasonable times have access to the Site and to all workshops and places where materials or Plant are being manufactured, fabricated or prepared for the Works and the Contractor shall afford every facility for and every assistance in obtaining the right to such access.

37.2 **Inspection and Testing**

The Engineer shall be entitled, during manufacture, fabrication or preparation to inspect and test the materials and Plant to be supplied under the Contract. If materials or Plant are being manufactured, fabricated or prepared in workshops or places other than those of the Contractor, the Contractor shall obtain permission for the Engineer to carry out such inspection and testing in those workshops or places. Such inspection or testing shall not release the Contractor from any obligation under the Contract.

37.3 **Dates for Inspection and Testing**

The Contractor shall agree with the Engineer on the time and place for the inspection or testing of any materials or Plant as provided in the Contract. The Engineer shall give the Contractor not less than 24 hours notice of his intention to carry out the inspection or to attend the tests. If the Engineer, or his duly authorised representative, does not attend on the date agreed, the Contractor may, unless otherwise instructed by the Engineer, proceed with the tests, which shall be deemed to have been made in the presence of the Engineer. The Contractor shall forthwith forward to the Engineer duly certified copies of the tests readings. If the Engineer has not attended the tests, he shall accept the said readings as accurate.

37.4 **Rejection**

If, at the time and place agreed in accordance with Sub-Clause 37.3, the materials or Plant are not ready for inspection or testing or if, as a result of the inspection or testing referred to in this Clause, the Engineer determines that the materials or Plant are defective or otherwise not in accordance with the Contract, he may reject the materials or Plant and shall notify the Contractor thereof immediately. The notice shall state the Engineer's objections with reasons. The Contractor shall then promptly make good the defect or ensure that rejected materials or Plant comply with the Contract. If the Engineer so requests, the tests of rejected materials or Plant shall be made or repeated under the same terms and conditions. All costs incurred by the Employer by the repetition of the test shall after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer and may be deducted from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

37.5 **Independent Inspection**

The Engineer may delegate inspection and testing of materials or Plant to an independent inspector. Any such delegation shall be effected in accordance with Sub-Clause 2.4 and for this purpose such independent inspector shall be considered as an assistant of the Engineer. Notice of such appointment (not being less than 14 days) shall be given by the Engineer to the Contractor.

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38.1 **Examination of Work before Covering up**

No part of the works shall be covered up or put out of view without the approval of the Engineer and the Contractor shall afford full opportunity for the Engineer to examine and measure any such part of the Works which is about to be covered up or put out of view and to examine foundations before any part of the Works is placed thereon. The Contractor shall give notice to the Engineer whenever any such part of the Works or foundations is or are ready or about to be ready for examination and the Engineer shall, without unreasonable delay, unless he considers it unnecessary and advises the Contractor accordingly, attend for the purpose of examining and measuring such part of the Works or of examining such foundations.

38.2 **Uncovering and Making Openings**

The Contractor shall uncover any part of the Works or make openings in or through the same as the Engineer may from time to time instruct and shall reinstate and make good such part. If any such part has been covered up or put out of view after compliance with the requirement of Sub-Clause 38.1 and is found to be executed in accordance with the Contract, the Engineer shall, after due consultation with the Employer and the Contractor, determine the amount the Contractor's costs in respect of such of uncovering, making openings in or through, reinstating and making good the same, which shall be added to the Contract Price, and shall notify the Contractor accordingly, with a copy to the Employer. In any other case all costs shall be borne by the Contractor.

39.1 **Removal of Improper Work, Materials or Plant**

The Engineer shall have authority to issue instructions from time to time, for:

(a) the removal from the Site, within such time or times as may be specified in the instruction, of any materials or Plant which, in the opinion of the Engineer, are not in accordance with the Contract,

(b) the substitution of proper and suitable materials or Plant, and

(c) the removal and proper re-execution, notwithstanding any previous test thereof or interim payment therefor, of any work which, in respect of

(i) materials, Plant or workmenship, or

(ii) design by the Contractor or for which he is responsible,

is not, in the opinion of the Engineer, in accordance with the Contract.

39.2 **Default of Contractor in Compliance**

In case of default on the part of Contractor in carrying out such instruction within the time specified therein or, if none, within a reasonable time, the Employer shall be entitled to employ and pay other persons to carry out the same and all costs consequent thereon or incidental thereto shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

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Suspension

40.1 **Suspension of Work**

The Contractor shall, on the instructions of the Engineer, suspend the progress of the Works or any part thereof for such time and in such manner as the Engineer may consider necessary and shall, during such suspension, properly protect and secure the Works or such part thereof so far as is necessary in the opinion of the Engineer. Unless such suspension is:

(a) otherwise provided for in the Contract,
(b) necessary by reason of some default of or breach of contract by the Contractor or for which he is responsible,

(c) necessary by reason of climatic conditions of the Site, or

(d) necessary for the proper execution of the Works or for the safety of the Works or any part thereof (save to the extent that such necessity arises from any act or default by the Engineer or the Employer or from any of the risks defined in Sub-Clause 20.4),
Sub-Clause 40.2 shall apply.

40.2 **Engineer's Determination following Suspension**

Where, pursuant to Sub-Clause 40.1, this Sub-Clause applies the Engineer shall, after due consultation with the Employer and the Contractor, determine:

(a) any extension of time to which the Contractor is entitled under Clause 44, and

(b) the amount, which shall be added to the Contract Price, in respect of the cost incurred by the Contractor by reason of such suspension,

and shall notify the Contractor accordingly, with a copy to the Employer.

40.3 **Suspension lasting more than 84 Days**

If the progress of the Works or any part thereof is suspended on the written instructions of the Engineer and if permission to resume work is not given by the Engineer within a period for 84 days from the date of suspension then, unless such suspension is within paragraph (a), (b), (c) or (d) of Sub-Clause 40.1, the Contractor may give notice to the Engineer requiring permission, within 28 days from the receipt thereof, to proceed with the Works or that part thereof in regard to which progress is suspended. If, within the said time, such permission is not granted, the Contractor may, but is not bound to, elect to treat the suspension, where it affects part only of the Works, as an omission of such part under Clause 51 by giving a further notice to the Engineer to that effect, or, where it affects the whole of the Works, treat the suspension as an event of default by the Employer and terminates his employment under the Contract in accordance with the provisions of Sub-Clause 69.1, whereupon the provisions of Sub-Clause 69.2 and 69.3 shall apply.

Commencement and Delays

41.1 Commencement of Works

The Contractor shall commence the Works as soon as is reasonably possible after the receipt by him of notice to this effect from the Engineer, which notice shall be issued within the time stated in the Appendix to Tender after the date of the Letter of Acceptance. Thereafter, the Contractor shall proceeded with the Works with due expedition and without delay.

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42.1 **Possession of Site and Access Thereto**

Save insofar as the Contract may prescribe:

(a) the extent of portions of the Site of which the Contractor is to be given possession from time to time,

(b) the order in which such portions shall be made available to the Contractor,

and, subject to any requirement in the Contract as to the order in which the Works shall be executed, the Employer will, with the Engineer's notice to commence the Works, give to the Contractor possession of

(c) so much of the Site, and

(d) such access as, in accordance with the Contract, is to be provided by the Employer as may be required to enable the Contractor to commence and proceed with the execution of the Works in accordance with the programme referred to in Clause 14, if any, and otherwise in accordance with such reasonable proposals as the Contractor shall, by notice to the Engineer with a copy to the Employer, make. The Employer will, from time to time as the Works proceed, give to the Contractor possession of such further portions of the Site as may be required to enable the Contractor to proceed with the execution of the Works with due dispatch in accordance with such programme or proposals, as the case may be.

42.2 **Failure to Give Possession**

If the Contractor suffers delay and/or incurs costs from failure on the part of the Employer to give possession in accordance with the terms of Sub-Clause 42.1, the Engineer shall, after due consultation with the Employer and the Contractor, determine:

(a) any extension of time to which the Contractor is entitled under Clause 44, and

(b) the amount of such costs, which shall be added to the Contract Price,

and shall notify the Contractor accordingly, with a copy to the Employer.

42.3 **Rights of Way and Facilities**

The Contractor shall bear all costs and charges for special or temporary wayleaves required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works.

43.1 **Time for Completion**

The whole of the Works and, if applicable, any Section required to be completed within a particular time as stated in the Appendix to Tender, shall be completed, in accordance with the provisions of Clause 48, within the time stated in the Appendix to Tender for the whole of the Works or the Section (as the case may be), calculated from the Commencement Date, or such extended time as may be allowed under Clause 44.

44.1 **Extension of Time for Completion**

In the event of:

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(a) the amount or nature of extra or additional work,

(b) any cause of delay referred to in these Conditions,

(c) exceptionally adverse climatic conditions,

(d) any delay, impediment or prevention by the Employer, or

(e) other special circumstances which may occur, other than through a default of or breach of contract by the Contractor or for which he is responsible,

being such as fairly to entitle the Contractor to an extension of the Time for Completion of the Works, or any Section or part thereof, the Engineer shall, after due consultation with the Employer and the Contractor, determine the amount of such extension and shall notify the Contractor accordingly, with a copy to the Employer.

44.2 **Contractor to Provide Notification and Detailed Particulars**

Provided that the Engineer is not bound to make any determination unless the Contractor has

(a) within 28 days after such event has first arisen notified the Engineer with a copy to the Employer, and

(b) within 28 days or such other reasonable time as may be agreed by the Engineer, after such notification submitted to the Engineer detailed particulars of any extension of time to which he may consider himself entitled in order that such submission may be investigated at the time.

44.3 **Interim Determination of Extension**

Provided also that where an event has a continuing effect such that it is not practicable for the Contractor to submit detailed particulars within the period of 28 days referred to in Sub-Clause 44.2(b), he shall nevertheless be entitled to an extension of time provided that he has submitted to the Engineer interim particulars at intervals of not more than 28 days and final particulars within 28 days of the end of the effects resulting from the event. On receipt of such interim particulars, the Engineer shall, without undue delay, make an interim determination of extension of time and, on receipt of the final particulars, the Engineer shall review all the circumstances and shall determine an overall extension of time in regard to the event. In both such cases the Engineer shall make his determination after due consultation with the Employer and the Contractor and shall notify the Contractor of the determination, with a copy to the Employer. No final review shall result in a decrease of any extension of time already determined by the Engineer.

45.1 **Restriction on Working Hours**

Subject to any provision to the contrary contained in the Contract, none of the Works shall, save as hereinafter provided, be carried on during the night or on locally recognised days of rest without the consent of the Engineer, except when work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer. Provided that the provisions of this Clause shall not be applicable in the case of any work which it is customary to carry out by multiple shifts.

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46.1 **Rate of Progress**

If for any reason, which does not entitle the Contractor to an extension of time, the rate of progress of the Works or any Section is at any time, in the opinion of the Engineer, too slow to comply with the Time for Completion, the Engineer shall so notify the Contractor who shall thereupon take such steps as are necessary, subject to the consent of the Engineer, to expedite progress so as to comply with the Time for Completion. The Contractor shall not be entitled to any additional payment for taking such steps. If, as a result of any notice given by the Engineer under this Clause, the Contractor considers that it is necessary to do any work at night or on locally recognised days of rest, he shall be entitled to seek the consent of the Engineer so to do. Provided that if any steps, taken by the Contractor in meeting his obligations under this Clause, involve the Employer in additional supervision costs, such cost shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

47.1 **Liquidated Damages for Delay**

If the Contractor fails to comply with the Time for Completion in accordance with Clause 48, for the whole of the Works or, if applicable, any Section within the relevant time prescribed by Clause 43, then the Contractor shall pay to the Employer the relevant sum stated in the Appendix to Tender as liquidated damages for such default and not as a penalty (which sum shall be the only monies due from the Contractor for such default) for every day or part of a day which shall elapse between the relevant Time for Completion and the date stated in a Taking-Over Certificate of the whole of the Works or the relevant Section, subject to the applicable limit stated in the Appendix to Tender. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.

47.2 **Reduction of Liquidated Damages**

If, before the Time for Completion of the whole of the Works or, if applicable, any Section, a Taking-Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of the remainder of the Works or of that Section shall, for any period of delay after the date stated in such Taking-Over Certificate, and in the absence of Alternative provisions in the Contract, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Sub-Clause shall only apply to the rate of liquidated damages and shall not affect the limit thereof.

48.1 **Taking-Over Certificate**

When the whole of the Works have been substantially completed and have satisfactorily passed any Tests on Completion prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer with a copy to the Employer, accompanied by a written undertaking to finish with due expedition any outstanding work during the Defects Liability Period. Such notice and undertaking shall be deemed to be a request by the Contractor for the Engineer to issue a Taking-Over Certificate in respect of the Works. The Engineer shall within 21 days of the date of delivery of such notice, either issue to the Contractor, with a copy to the Employer, a Taking-Over Certificate, stating the date on which, in his opinion, the Works were substantially completed in accordance with the Contract, or give instructions in writing to the Contractor specifying all the work which, in the Engineer's opinion, is required to be done by the Contractor before the issue of such Certificate. The Engineer shall also notify the Contractor of any defects in the Works affecting substantial completion that may appear after such instructions and before completion of the Woks specified therein. The Contractor shall be entitled

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to receive such Taking-Over Certificate within 21 days of completion, to the satisfaction of the Engineer, of the Works so specified and remedying any defects so notified.

48.2 **Taking Over of Sections or Parts**

Similarly, in accordance with the procedure set out in Sub-Clause 48.1, the Contractor may request and the Engineer shall issue a Taking-Over Certificate in respect of:

(a) any Section in respect of which a separate Time for Completion is provided in the Appendix to Tender,

(b) any substantial part of the Permanent Works which has been both completed to the satisfaction of the Engineer and, otherwise than as provided for in the Contract, occupied or used by the Employer, or

(c) any part of the Permanent Works which the Employer has elected to occupy or use prior to completion (where such prior occupation or use is not provided for in the Contract or has not been agreed by the Contractor as a temporary measure).

48.3 **Substantial Completion of Parts**

If any part of the Permanent Works has been substantially completed and has satisfactorily passed any Tests on Completion prescribed by the Contractor, the Engineer may issue a Taking-Over Certificate in respect of that part of the Permanent Works before completion of the whole of the Works and, upon the issue of such Certificate, the Contractor shall be deemed to have undertaken to complete with due expedition any outstanding work in that part of the Permanent Works during the Defects Liability Period.

48.4 **Surfaces Requiring Reinstatement**

Provided that a Taking-Over Certificate given in respect of any Section or part of the Permanent Works before completion of the whole of the Works shall not be deemed to certify completion of any ground or surfaces requiring reinstatement, unless such Taking-Over Certificate shall expressly so state.

Defects Liability

49.1 **Defects Liability Period**

In these Conditions the expression "Defects Liability Period" shall mean the defects liability period named in the Appendix to Tender, calculated from:

(a) the date of completion of the Works certified by the Engineer in accordance with Clause 48, or

(b) in the event of more than one certificate having issued by the Engineer under Clause 48, the respective dates so certified,

and in relation to the Defects Liability Period the expression "the Works" shall be construed accordingly.

49.2 **Completion of Outstanding Work and Remedying Defects**

To the intent that the Works shall, at or as soon as practicable after the expiration of the Defects Liability Period, be delivered to the Employer in the condition required by the Contract, fair wear and tear excepted, to the satisfaction of the Engineer, the Contractor shall:

(a) complete the work, if any, outstanding on the date stated in the Taking-Over Certificate as soon as practicable after such date, and

(b) execute all such work of amendment, reconstruction, and remedying defects, shrinkages or other faults as the Engineer may, during the Defects Liability Period or within 14 days after its expiration, as a result of an inspection made by or on behalf of the Engineer prior to its expiration, instruct the Contractor to execute.

49.3 **Cost of Remedying Defects**

All work referred to in Sub-Clause 49.2(b) shall be executed by the Contractor at his own cost if the necessity thereof is, in the opinion of the Engineer, due to:

(a) the use of materials, Plant or workmanship not in accordance with the Contract,
(b) where the Contractor is responsible for the design of part of the Permanent Works, any fault i n such design, or
(c) the neglect or failure on the part of the Contractor to comply with any obligation, expressed or implied, on the Contractor's part under the Contract.

If, in the opinion of the Engineer, such necessity is due to any other cause, he shall determine an addition to the Contract Price in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer.

49.4 **Contractor's Failure to Carry Out Instructions**

In case of default on the part of the Contractor in carrying out such instruction within a reasonable time, the Employer shall be entitled to employ and pay other persons to carry out the same and if such work is work which, in the opinion of the Engineer, the Contractor was liable to do at his own cost under the Contract, then all cost consequent thereon or incidental thereto shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

50.1 **Contractor to Search**

If any defect, shrinkage or other fault in the Works appears at any time prior to the end of the Defects Liability Period, the Engineer may instruct the Contractor, with a copy to the Employer, to search under the directions of the Engineer for the cause thereof. Unless such defect, shrinkage or other fault is one for which the Contractor is liable under the Contract, the Engineer shall, after due consultation with the Employer and the Contractor, determine the amount in respect of the costs of such search incurred by the Contractor, which shall be added to the Contract Price and shall notify the Contractor accordingly, with a copy to the Employer. If such defect, shrinkage or other fault is one for which the Contractor is liable, the cost of the work carried out in searching as aforesaid shall be borne by the Contractor and he shall in such case remedy such defect, shrinkage or other fault at his own cost in accordance with the provisions of Clause 49.

Alterations, Additions and Omissions

51.1 **Variations**

The Engineer shall make any variation of the form, qualify or quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his

opinion, be appropriate, he shall have the authority to instruct the Contractor to do and the Contractor shall do any of the following:

(a) increase or decrease the quantity of any work included in the Contract,
(b) omit any such work (but not if the omitted work is to be carried out by the Employer or by another contractor),
(c) change the character or quality or kind of any such work,
(d) change the levels, lines, position and dimensions of any part of the Works,
(e) execute additional work of any kind necessary for the completion of the Works, or
(f) change any specified sequence or timing of construction of any part of the Works.

No such variation shall in any way vitiate or invalidate the Contract, but the effect, if any, of all such variations shall be valued in accordance with Clause 52. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor.

51.2 **Instructions for Variations**

The Contractor shall not make any such variation without an instruction of the Engineer. Provided that no instruction shall be required for increase or decrease in the quantity of any work where such increase or decrease is not the result of an instruction given under this Clause, but is the result of the quantities exceeding or being less than those stated in the Bill of Quantities.

52.1 **Valuation of Variations**

All variations referred to in Clause 51 and any additions to the Contract Price which are required to be determined in accordance with Clause 52 (for the purposes of this Clause referred to as "varied work"), shall be valued at the rates and prices set out in the Contract if, in the opinion of the Engineer, the same shall be applicable. If the Contract does not contain any rates or prices applicable to the varied work, the rates and prices in the Contract shall be used as the basis for valuation so far as may be reasonable, failing which, after due consultation by the Engineer with the Employer and the Contractor, suitable rates or prices shall be agreed upon between the Engineer and the Contractor. In the event of disagreement the Engineer shall fix such rates or prices as are, in his opinion, appropriate and shall notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed or fixed, the Engineer shall determine provisional rates or prices to enable on-account payments to be included in certificates issued in accordance with Clause 60.

52.2 **Power of Engineer to Fix Rates**

Provided that if the nature or amount of any varied work relative to the nature or amount of the whole of the Works or to any part thereof, is such that, in the opinion of the Engineer, the rate or price contained in the Contract for any item of the Works is, by reason of such varied work, rendered inappropriate or inapplicable, then, after due consultation by the Engineer with the Employer and the Contractor, a suitable rate or price shall be agreed upon between the Engineer and the Contractor. In the event of disagreement the Engineer shall fix such other rate or price as is, in his opinion, appropriate and shall notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed or fixed, the Engineer shall determine provisional rates or prices to enable on-account payments to be included in certificates issued in accordance with Clause 60.

Provided also that no varied work instructed to be done by the Engineer pursuant to Clause 51 shall be valued under Sub-Clause 52.1 or under this Sub-Clause unless, within 14 days of the date of such instruction and, other than in the case of omitted work, before the commencement of the varied work, notice shall have been given either:

(a) by the Contractor to the Engineer of his intention to claim extra payment or a varied rate or price, or

(b) by the Engineer to the Contractor of his intention to vary a rate or price.

52.3 **Variations Exceeding 15 per cent**

If, on the issue of the Taking-Over Certificate for the whole of the Works, it is found that as a result of:

(a) all varied work valued under Sub-Clauses 52.1 and 52.2, and

(b) all adjustments upon measurement of the estimated quantities set out in the Bill of Quantities, excluding Provisional Sums, dayworks and adjustment of price made under Clause 70.

but not from any other cause, there have been additions to or deductions from the Contract Price which taken together are in excess of 15 per cent of the "Effective Contract Price" (which for the purposes of this Sub-Clause shall mean the Contract Price, excluding Provisional Sums and allowance for dayworks, if any) then and in such event (subject to any action already taken under any other Sub-Clause of this Clause), after due consultation by the Engineer with the Employer and the Contractor, there shall be added to or deducted from the Contract Price such further sums as may be agreed between the Contractor and the Engineer or, failing agreement, determined by the Engineer having regard to the Contractor's Site and general overhead costs of the Contract. The Engineer shall notify the Contractor of any determination made under this Sub-Clause, with a copy to the Employer. Such sum shall be based only on the amount by which such additions or deductions shall be in excess of 15 per cent of the Effective Contract Price.

52.4 **Daywork**

The Engineer may, if in his opinion it is necessary or desirable, issue an instruction that any varied work shall be executed on a daywork basis. The Contractor shall then be paid for such varied work under the terms set out in the daywork schedule included in the Contract and at the rates and prices affixed thereto by him in the Tender.

The Contractor shall furnish to the Engineer such receipts or other vouchers as may be necessary to provide the amounts paid and, before ordering material, shall submit to the Engineer quotations for the same for his approval.

In respect of such of the Works executed on a daywork basis , the Contractor shall during the continuance of such work, deliver each day to the Engineer an exact list in duplicate of the names, occupation and time of all workmen employed on such work and a statement, also in duplicate, showing the description and quantity of all materials and Contractor's Equipment used thereon or therefor other than Contractor's Equipment which is included in the percentage addition in accordance with such daywork schedule. One copy of each list and statement will, if correct, or when agreed, be signed by the Engineer and returned to the Contractor.

At the end of each month the Contractor shall deliver to the Engineer a priced statement of the labour, materials and Contractor's Equipment, except as aforesaid, used and the Contractor shall not be entitled to any payment unless such lists and statements have been fully and punctually rendered. Provided always that if the Engineer considers that for any reason the sending of such lists or statements by the Contractor, in accordance with the foregoing provision, was impracticable he shall nevertheless be entitled to authorise payment for such work, either as daywork, on being satisfied as to the time employed and the labour, materials and Contractor’s Equipment used on such work, or at such value therefor as shall, in his opinion, be fair and reasonable.

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Procedure for Claims

53.1 **Notice of Claims**

Notwithstanding any other provision of the Contract, if the Contractor intends to claim any additional payment pursuant to any Clause of these Conditions or otherwise, he shall give notice of his intention to the Engineer with a copy to the Employer, within 28 days after the event giving rise to the claim has first arisen.

53.2 **Contemporary Records**

Upon the happening of the event referred to in Sub-Clause 53.1, the Contractor shall keep such contemporary records as may reasonably be necessary to support any claim he may subsequently wish to make. Without necessarily admitting the Employer's liability, the Engineer shall, on receipt of a notice under Sub-Clause 53.1, inspect such contemporary records and may instruct the Contractor to keep any further contemporary records as are reasonable and may be material to the claim of which notice has been given. The Contractor shall permit the Engineer to inspect all records kept pursuant to this Sub-Clause and shall supply him with copies thereof as and when the Engineer so instructs.

53.3 **Substantiation of Claims**

Within 28 days, or such other reasonable time as may be agreed by the Engineer, of giving notice under Sub-Clause 53.1, the Contractor shall send to the Engineer an account giving detailed particulars of the amount claimed and the grounds upon which the claim is based. Where the event giving rise to the claim has a continuing effect, such account shall be considered to be an interim account and the Contractor shall, at such intervals as the Engineer may reasonably require, send further interim accounts giving the accumulated amount of the claim and any further grounds upon which it is based. In cases where interim accounts are sent to the Engineer, the Contractor shall send a final account within 28 days of the end of the effects resulting from the event. The Contractor shall, if required by the Engineer so to do, copy to the Employer all accounts sent to the Engineer pursuant to this Sub-Clause.

53.4 **Failure to Comply**

If the Contractor fails to comply with any of the provisions of this Clause in respect of any claim which he seeks to make, his entitlement to payment in respect thereof shall not exceed such amount as the Engineer or any arbitrator or arbitrators appointed pursuant to Sub-Clause 67.3 assessing the claim considers to be verified by contemporary records (whether or not such records were brought to the Engineer's notice as required under Sub-Clause 53.2 and 53.3).

53.5 **Payment of Claims**

The Contractor shall be entitled to have included in any interim payment certified by the Engineer pursuant to Clause 60 such amount in respect of any claim as the Engineer, after due consultation with the Employer and the Contractor, may consider due to the Contractor provided that the Contractor has supplied sufficient particulars to enable the Engineer to determine the amount due. If such particulars are insufficient to substantiate the whole of the claim, the Contractor shall be entitled to payment in respect of such part of the claim as such particulars may substantiate to the satisfaction of the Engineer. The Engineer shall notify the Contractor of any determination made under this Sub-Clause, with a copy to the Employer.

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Contractor's Equipment, Temporary Works and Materials

54.1 **Contractor's Equipment, Temporary Works and Materials; Exclusive Use for the Works**

All Contractor's Equipment, Temporary Works and materials provided by the Contractor shall, when brought on to the Site, be deemed to be exclusively intended for the execution of the Works and the Contractor shall not remove the same or any part thereof, except for the purpose of moving it from one part of the Site to another, without the consent of the Engineer. Provided that consent shall not be required for vehicles engaged in transporting any staff, labour, Contractor's Equipment, Temporary Works, Plant or materials to or from the Site.

54.2 **Employer not Liable for Damage**

The Employer shall not at any time be liable, save as mentioned in Clauses 20 and 65, for the loss of or damage to any of the said Contractor's Equipment, Temporary Works or materials.

54.3 **Customs Clearance**

The Employer will use his best endeavours in assisting the Contractor, where required, in obtaining clearance through the Customs of Contractor's Equipment, materials and other things required for the Works.

54.4 **Re-export of Contractor's Equipment**

In respect of any Contractor's Equipment which the Contractor has imported for the purposes of the Works, the Employer will use his best endeavours to assist the Contractor, where required, in procuring any necessary Government consent to the re-export of such Contractor's Equipment by the Contractor upon the removal thereof pursuant to the terms of Contract.

54.5 **Conditions of Hire of Contractor's Equipment**

With a view to securing, in the event of termination under Clause 63, the continued availability, for the purpose of executing the Works, of any hired Contractor's Equipment, the Contractor shall not bring on to the Site any hired Contractor's Equipment unless there is an agreement for hire thereof (which agreement shall be deemed not to include an agreement for hire purchase) which contains a provision that the owner thereof will, on request in writing made by the Employer within 7 days after the date on which any termination has become effective, and on the Employer undertaking to pay all hire charges in respect thereof from such date, hire such Contractor's Equipment to the Employer on the same terms in all respect as the same was hired to the Contractor save that the Employer shall be entitled to permit the use thereof by any other contractor employed by him for the purpose of execution and completing the Works and remedying any defects therein, under the terms of the said Clause 63.

54.6 **Costs for the Purpose of Clause 63**

In the event of the Employer entering into any agreement for the hire of Contractor's Equipment pursuant to Sub-Clause 54.5, all sums properly paid by the Employer under the provision of any such agreement and all costs incurred by him (including stamp duties) in entering into such agreement shall be deemed, for the purpose of Clause 63, to be part of the cost of executing and completing the Works and the remedying of any defects therein.

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54.7 **Incorporation of Clause in Subcontracts**

The Contractor shall, where entering into any subcontract for the execution of any part of the Works, incorporate in such subcontract (by reference or otherwise) the provisions of this Clause in relation to Contractor's Equipment, Temporary Works or materials brought on to the Site by the Subcontractor.

54.8 **Approval of Materials not Implied**

The operation of this Clause shall not be deemed to imply any approval by the Engineer of the materials or other matters referred to therein nor shall it prevent the rejection of any such materials at any time by the Engineer.

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Measurement

55.1 **Quantities**

The quantities set out in the Bill of Quantities are the estimated quantities for the Works, and they are not to be taken as the actual and correct quantities of the Works to be executed by the Contractor in fulfillment of his obligations under the Contract.

56.1 **Works to be Measured**

The Engineer shall, except as otherwise stated, ascertain and determine by measurement the value of the Works in accordance with the Contract and the Contractor shall be paid that value in accordance with Clause 60. The Engineer shall, when he requires any part of the Works to be measured, give reasonable notice to the Contractor's authorised agent, who shall:

(a) forthwith attend or send a qualified representative to assist the Engineer in making such measurement, and

(b) supply all particulars required by the Engineer.

Should the Contractor not attend, or neglect or omit to send such representative, then the measurement made by the Engineer or approved by him shall be taken to be the correct measurement of such part of the Works. For the purpose of measuring such Permanent Works as are to be measured by records and drawings, the Engineer shall prepare records and drawings as the work proceeds and the Contractor, as and when called upon to do so in writing, shall, within 14 days, attend to examine and agree such records and drawings with the Engineer and shall sign the same when so agreed. If the Contractor does not attend to examine and agree such records and drawings, they shall be taken to be correct. If, after examination of such records and drawings, the Contractor does not agree the same or does not sign the same as agreed, they shall nevertheless be taken to be correct, unless the Contractor, within 14 days of such examination, lodges with the Engineer notice of the respects in which such records and drawings are claimed by him to be incorrect. On receipt of such notice, the Engineer shall review the records and drawings and either confirm or vary them.

57.1 **Method of Measurement**

The Works shall be measured net, notwithstanding any general or local custom, except where otherwise provided for in the Contract.

57.2 **Breakdown of Lump Sum Items**

For the purposes of statements submitted in accordance with Sub-Clause 60.1, the Contractor shall submit to the Engineer, within 28 days after the receipt of the Letter of Acceptance, a breakdown for each of the lump sum items contained in the Tender. Such breakdowns shall be subject to the approval of the Engineer.

Provisional Sums

58.1 **Definition of "Provisional Sum"**

"Provisional Sum" means a sum included in the Contract and so designated in the Bill of Quantities for the execution of any part of the Works or for the supply of goods, materials, Plant or services, or for contingencies, which sum may be used, in whole or in part, or not at all, on the instructions of the Engineer. The Contractor shall be entitled to only such amounts in respect of the work, supply or contingencies to which such Provisional Sums relate as the Engineer shall determine in accordance

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with this Clause. The Engineer shall notify the Contractor of any determination made under this Sub-Clause, with a copy to the Employer.

58.2 **Use of Provisional Sums**

In respect of every Provisional Sum the Engineer shall have authority to issue instructions for the execution of work or for the supply of goods, material, Plant or services by:

(a) the Contractor, in which case the Contractor shall be entitled to an amount equal to the value thereof determined in accordance with Clause 52, and

(b) a nominated Subcontractor, as hereinafter defined, in which case the sum to be paid to the Contractor therefor shall be determined and paid in accordance with Sub-Clause 59.4.

58.3 Production of Vouchers

The Contractor shall produce to the Engineer all quotations, invoices, vouchers and accounts or receipts in connection with expenditure in respect of Provisional Sums, except where work is valued in accordance with rates or prices set out in the Tender.

Nominated Subcontractors

59.1 **Definition of "Nominated Subcontractors"**

All specialists, merchants, tradesmen and others executing any work or supplying any goods, materials, Plant or services for which Provisional Sums are included in the Contract, who may have been or be nominated or selected or approved by the Employer or the Engineer, and all persons to whom by virtue of the provisions of the Contract the Contractor is required to subcontract shall, in the execution of such work or the supply of such goods, materials, Plant or services, be deemed to be subcontractors to the Contractor and are referred to in this Contract as "nominated Subcontractors".

59.2 **Nominated Subcontractors; Objection to Nomination**

The Contractor shall not be required by the Employer or the Engineer, or be deemed to be under any obligation, to employ any nominated Subcontractor against whom the Contractor may raise reasonable objection, or who declines to enter into subcontract with the Contractor containing provisions:

(a) that in respect of the work, goods, materials, Plant or services the subject of the subcontract, the nominated Subcontractor will undertake towards the Contractor such obligations and liabilities as will enable the Contractor to discharge his own obligations and liabilities towards the Employer under the terms of the Contract and will save harmless and indemnify the Contractor from and against the same and from all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of or in connection therewith, or arising out of or in connection with any failure to perform such obligations or to fulfill such liabilities, and

(b) that the nominated Subcontractor will save harmless and indemnity the Contractor from and against any negligence by the nominated Subcontractor, his agents, workmen and servants and from and against any misuse by him or them of any Temporary Works provided by the Contractor for the purposes of the Contract and from all claims as aforesaid.

59.3 **Design Requirements to be Expressly Stated**

If in connection with any Provisional Sum the services to be provided include any matter of design or specification of any part of the Permanent Works or of any Plant to be incorporated therein, such

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requirement shall be expressly stated in the Contract and shall be included in any nominated Subcontract. The nominated Subcontract shall specify that the nominated Subcontractor providing such services will save harmless and indemnify the Contractor from and against the same and from all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of or in connection with any failure to perform such obligations or to fulfill such liabilities.

59.4 **Payments to Nominated Subcontractors**

For all work executed or goods, materials, Plant or services supplied by any nominated Subcontractor, the Contractor shall be entitled to:

(a) the actual price paid or due to be paid by the Contractor, on the instructions of the Engineer, and in accordance with the subcontract;

(b) in respect of labour supplied by the Contractor, the sum, if any, entered in the Bill of Quantities or, if instructed by the Engineer pursuant to paragraph (a) of Sub-Clause 58.2, as may be determined in accordance with Clause 52; and

(c) in respect of all other charges and profit, a sum being a percentage rate of the actual price paid or due to be paid calculated, where provision has been made in the Bill of Quantities for a rate to be set against the relevant Provisional Sum, at the rate inserted by the Contractor against that item or, where no such provision has been made, at the rate inserted by the Contractor in the Appendix to Tender and repeated where provision for such is made in a special item provided in the Bill of Quantities for such purpose.

59.5 **Certification of Payments to Nominated Subcontractors**

Before issuing, under Clause 60 any certificate, which includes any payment in respect of work done or goods, materials, Plant or services supplied by any nominated Subcontractor, the Engineer shall be entitled to demand from the Contractor reasonable proof that all payments, less retentions, included in previous certificates in respect of the work or goods, materials, Plant or services of such nominated Subcontractor have been paid or discharged by the Contractor. If the Contractor fails to supply such proof then, unless the Contractor:
(a) satisfies the Engineer in writing that he has reasonable cause for withholding or refusing to make such payment, and

(b) produces to the Engineer reasonable proof that he has so informed such nominated Subcontractor in writing,

the Employer shall be entitled to pay to such nominated Subcontractor direct, upon the certificate of the Engineer, all payments, less retention, provided for in the nominated Subcontract, which the Contractor has failed to make to such nominated Subcontractor and to deduct by way of set-off the amount so paid by the Employer from any sums due or to become due from the Employer to the Contractor.

Provided that, where the Engineer has certified and the Employer has paid direct as aforesaid, the Engineer shall in issuing any further certificate in favour of the Contractor, deduct from the amount thereof the amount so paid, direct as aforesaid, but shall not withhold or delay the issue of the certificate itself when due to be issued under the terms of the Contract.

Certificates and Payment

60.1 **Monthly Statements**

The Contractor shall submit to the Engineer after the end of each month six copies, each signed by the Contractor's representative approved by the Engineer in accordance with the Sub-Clause 15.1, of a statement, in such form as the Engineer may from time to time prescribe, showing the amounts to which the Contractor considers himself to be entitled up to the end of the month in respect of:

(a) the value of the Permanent Works executed,

(b) any other items in the Bill of Quantities including those for Contractor’s Equipment, Temporary Works, dayworks and the like,

(c) the percentage of the invoice value of listed materials, all as stated in the Appendix to Tender, and Plant delivered by the Contractor on the Site for incorporation in the Permanent Works but not incorporated in such Works,

(d) adjustments under Clause 70, and

(e) any other sum to which the Contractor may be entitled under the Contract or otherwise.

60.2 **Monthly Payments**

The Engineer shall, within 28 days of receiving such statement, certify to the Employer the amount of payment to the Contractor which he considers due and payable in respect thereof, subject:

(a) firstly, to the retention of the account calculated by applying the Percentage of Retention stated in the Appendix to Tender, to the amount to which the Contractor is entitled under paragraph (a), (b), (c) and (e) of Sub-Clause 60.1 until the amount so retained reaches the Limit of Retention Money stated in the Appendix to Tender, and

(b) secondly, to the deduction, other than pursuant to Clause 47, of any sums which may have become due and payable by the Contractor to the Employer.

Provided that the Engineer shall not be bound to certify any payment under this Sub-Clause if the net amount thereof, after all retentions and deductions, would be less than the Minimum Amount of Interim Payment Certificates stated in the Appendix to Tender.

Notwithstanding the terms of this Clause or any other Clause of the Contract no amount will be certified by the Engineer for payment until the performance security, if required under the Contract, has been provided by the Contractor and approved by the Employer.

60.3 **Payment of Retention Money**

(a) Upon the issue of the Taking-Over Certificate with respect to the whole of the Works, one half of the Retention Money, or upon the issue of a Taking-Over Certificate with respect to a Section or part of the Permanent

Works only such proportion thereof as the Engineer determines having regard to the relative value of such Section or part of the Permanent Works, shall be certified by the Engineer for payment to the Contractor.

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(b)Upon the expiration of the Defects Liability Period for the Works the other half of the Retention Money shall be certified by the Engineer for payment to the Contractor. Provided that, in the event of different Defects Liability Periods having become applicable to different Sections or part of the Permanent Works pursuant to Clause 48, the expression "expiration of the Defects Liability Period" shall, for the purposes of this Sub-Clause, be deemed to mean the expiration of the latest of such periods. Provided also that if at such time, there shall remain to be executed by the Contractor any work instructed, pursuant to Clause 49 and 50, in respect of the Works, the Engineer shall be entitled to withhold certification until completion of such work of so much of the balance of the Retention Money as shall, in the opinion of the Engineer, represent the cost of the work remaining to be executed.

60.4 **Correction of Certificates**

The Engineer may by any Interim Payment Certificate make any correction or modification in any previous certificate which shall have been issued by him and shall have authority, if any work is not being carried out to his satisfaction, to omit or reduce the value of such work in any Interim Payment Certificate.

60.5 **Statement at Completion**

Not later than 84 days after the issue of the Taking-Over Certificate in respect of the whole of the Works, the Contractor shall submit to the Engineer a Statement at Completion with supporting documents showing in detail, in the form approved by the Engineer:

(a) the final value of all work done in accordance with the Contract up to the date stated in such Taking-Over Certificate,

(b) any further sums which the Contractor considers to be due, and

(c) an estimate of amounts which the Contractor considers will become due to him under the Contract.

The estimated amounts shall be shown separately in such Statement at Completion. The Engineer shall verify payment in accordance with Sub-Clause 60.2.

60.6 **Final Statement**

Not later than 56 days after the issue of the Defects Liability Certificate pursuant to Sub-Clause 62.1, the Contractor shall submit to the Engineer for consideration a draft final statement with supporting documents showing in detail, in the form approved by the Engineer:

(a) the value of all work done in accordance with the Contract, and
(b) any further sums which the Contractor considers to be due to him under the Contract.

If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer may reasonably require and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Engineer the final statement as agreed (for the purposes of these Conditions referred to as the "Final Statement").

If, following discussions between the Engineer and the Contractor and any changes to the draft final statement which may be agreed between them, it becomes evident that a dispute exists, the Engineer shall deliver to the Employer an Interim Payment Certificate for those parts of the draft final statement, if any, which are not in dispute. The dispute may then be settled in accordance with Clause 67.

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60.7 **Discharge**

Upon submission of the Final Statement, the Contractor shall give to the Employer, with a copy to the Engineer, a written discharge confirming that the total of the Final Statement represents full and final settlement of all monies due to the Contractor arising out of or in respect of the Contract. Provided that such discharge shall become effective only after payment due under the Final Payment Certificate issued pursuant to Sub-Clause 60.8 has been made and the performance security referred to in Sub-Clause 10.1, if any, has been returned to the Contractor.

60.8 **Final Payment Certificate**

Within 28 days after receipt of the Final Statement, and the written discharge, the Engineer shall issue to the Employer (with a copy to the Contractor) a Final Payment Certificate stating:

(a) the amount which, in the opinion of the Engineer, is finally due under the Contract or otherwise, and

(b) after giving credit to the Employer for all amounts previously paid by the Employer and for all sums to which the Employer is entitled other than under Clause 47, the balance, if any, due from the Employer to the Contractor or from the Contractor to the Employer as the case may be.

60.9 **Cessation of Employer's Liability**

The Employer shall not be liable to the Contractor for any matter or thing arising out of or in connection with the Contract or execution of the Works, unless the Contractor shall have included a claim in respect thereof in his Final Statement and (except in respect of matters or things arising after the issue of the Taking-Over Certificate in respect of the whole of the Works) in the Statement at Completion referred to in Sub-Clause 60.5.

60.10 **Time for Payment**

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other term of the Contract, shall, subject to Clause 47, be paid by the Employer to the Contractor within 28 days after such Interim Payment Certificate has been delivered to the Employer, or, in the case of the Final Payment Certificate referred to in Sub-Clause 60.8, within 56 days, after such Final Payment Certificate has been delivered to the Employer. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor interest at the rate stated in the Appendix to Tender upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 69 or otherwise.

61.1 **Approval only by Defects Liability Certificate**

Only the Defects Liability Certificate, referred to in Clause 62, shall be deemed to constitute approval of the Works.

62.1 **Defects Liability Certificate**

The Contract shall not be considered as completed until a Defects Liability Certificate shall have been signed by the Engineer and delivered to the Employer, with a copy to the Contractor, stating the date on which the Contractor shall have completed his obligations to execute and complete the Works and remedy any defects therein to the Engineer's satisfaction. The Defects Liability Certificate shall be given by the Engineer within 28 days after the expiration of the Defects Liability Period, or, if different defects liability periods shall become applicable to different Sections or parts of the Permanent Works, the expiration of the latest such period, or as soon thereafter as any works instructed, pursuant to Clause 49 and 50, have been completed to the satisfaction of the Engineer.

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Provided that the issue of the Defects Liability Certificate shall not be a condition precedent to payment to the Contractor of the second portion of the Retention Money in accordance with the conditions set out in Sub-Clause 60.3.

62.2 **Unfulfilled Obligations**

Notwithstanding the issue of the Defects Liability Certificate the Contractor and the Employer shall remain liable for the fulfillment of any obligation incurred under the provisions of the Contract prior to the issue of the Defects Liability Certificate which remains unperformed at the time of such Defects Liability Certificate is issued and, for the purposes of determining the nature and extent of any such obligation, the Contract shall be deemed to remain in force between the parties to the Contract.

Remedies

63.1 **Default of Contractor**

If the Contractor is deemed by law unable to pay his debts as they fall due, or enters into voluntary or involuntary bankruptcy, liquidation or dissolution (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), or becomes insolvent, or makes an arrangement with, or assignment in favour of, his creditors, or agrees to carry out the Contract under a committee of inspection of his creditors, or if a receiver, administrator, trustee or liquidator is appointed over any substantial part of his assets, or if, under any law or regulation relating to reorganization, arrangement or readjustment of debts, proceedings are commenced against the Contractor or resolutions passed in connection with dissolution or liquidation or if any steps are taken to enforce any security interest over a substantial part of the assets of the Contractor, or if any act is done or event occurs with respect to the Contractor or his assets which, under any applicable law has a substantially similar effect to any of the foregoing acts or events, or if the Contractor has contravened Sub-Clause 3.1, or has an execution levied on his goods, or Contract, if the Engineer certifies to the Employer, with a copy to the Contractor, that, in his opinion, the Contractor:

(a) has repudiated the Contract, or

(b) without reasonable excuse has failed

(i) to commence the Works in accordance with Sub-Clause 41.1,
(ii) to proceed with the Works, or any Section thereof, within 28 days after receiving notice pursuant to Sub-Clause 46.1,

(c) has failed to comply with a notice issued pursuant to Sub-Clause 37.4 or an instruction issued pursuant to Sub-Clause 39.1 within 28 days after having received it

(d) despite previous warning from the Engineer, in writing, is otherwise persistently or flagrantly neglecting to comply with any of his obligations under the Contract, or

(e) has contravened Sub-Clause 4.1,
then the Employer may, after giving 14 days' notice to the Contractor, enter upon the Site and the Works and terminate the employment of the Contractor without thereby releasing the Contractor from any of his obligations or liabilities under the Contract, or affecting the rights and authorities conferred on the Employer or the Engineer by the Contract, and may himself complete the Works or may employ any other contractor to complete the Works. The Employer or such other contractor may use for such completion so much of the Contractor's Equipment, Temporary Works and materials as he or they may think proper.

63.2 **Valuation at Date of Termination**

The Engineer shall, as soon as may be practicable after any such entry and termination by the Employer, fix and determine ex parte, or by or after reference to the parties or after such investigation or enquiries as he may think fit to make or institute, and shall certify:

(a) what amount (if any) had, at the time of such entry and termination, been reasonably earned by or would reasonably accrue to the Contractor in respect of work then actually done by him under the Contract, and

(b) the value of any of the said unused or partially used materials, any Contractor's Equipment and any Temporary Works.

63.3 **Payment after Termination**

If the Employer terminates the Contractor's employment under this Clause, he shall not be liable to pay to the Contractor any further amount (including damages) in respect of the Contract until the expiration of the Defects Liability Period and thereafter until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any) and all other expenses incurred by the Employer have been ascertained and the amount thereof certified by the Engineer. The Contractor shall then be entitled to receive only such sum (if any) as the Engineer may certify would have been payable to him upon due completion by him after deducting the said amount. If such amount exceeds the sum which would have been payable to the Contractor on due completion by him, then the Contractor shall, upon demand, pay to the Employer the amount of such excess and it shall be deemed a debt due by the Contractor to the Employer and shall be recoverable accordingly.

63.4 **Assignment of Benefit of Agreement**

Unless prohibited by law, the Contractor shall, if so instructed by the Engineer within 14 days of such entry and termination referred to in Sub-Clause 63.1, assign to the Employer the benefit of any agreement for the supply of any goods or materials or services and/or for the execution of any work for the purposes of the Contract, which the Contractor may have entered into.

64.1 **Urgent Remedial Work**

If, by reason of any accident, or failure, or other event occurring to, in, or in connection with the Works, or any part thereof, either during the execution of the Works, or during the Defects Liability Period, any remedial or other work is, in the opinion of the Engineer, urgently necessary for the safety of the Works and the Contractor is unable or unwilling at once to do such work, the Employer shall be entitled to employ and pay other persons to carry out such work as the Engineer may consider necessary. If the work or repair so done by the Employer is work which, in the opinion of the Engineer, the Contractor was liable to do at his own cost under the Contract, then all costs consequent thereon or incidental thereto shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer. Provided that the Engineer shall, as soon after the occurrence of any such emergency as may be reasonably practicable, notify the Contractor thereof.

Special Risks

65.1 **No Liability for Special Risks**

The Contractor shall be under no liability whatsoever in consequence of any of the special risks referred to in Sub-Clause 65.2, whether by way of indemnity or otherwise, for or in respect of:

(a) destruction of or damage to the Works, save to work condemned under the provisions of Clause 39 prior to the occurrence of any of the said special risks,
(b) destruction of or damage to property, whether of the Employer or third parties, or
(c) injury or loss of life.

65.2 **Special Risks**

The Special Risks are:

(a) the risks defined under paragraphs (a), (c), (d) and (e) of Sub-Clause 20.4, and
(b) the risks defined under paragraph (b) of Sub-Clause 20.4 insofar as these relate to the country in which the Works are to be executed.

65.3 **Damage to Works by Special Risks**

If the Works or any materials or Plant on or near or in transit to the Site, or any of the Contractor's Equipment, sustain destruction or damage by reason of any of the said special risks, the Contractor shall be entitled to payment in accordance with the Contract for any Permanent Works duly executed and for any materials or Plant so destroyed or damaged and, so far as may be required by the Engineer or as may be necessary for the completion of the Works, to payment for:

(a) rectifying any such destruction or damage to the Works, and
(b) replacing or rectifying such materials or Contractor's Equipment,

and the Engineer shall determine an addition to the Contract Price in accordance with Clause 52 (which shall in the case of the cost of replacement of Contractor's Equipment include the fair market value thereof as determined by the Engineer) and shall notify the Contractor accordingly, with a copy to the Employer.

65.4 **Projectile, Missile**

Destruction, damage, injury or loss of life caused by the explosion or impact, whenever and wherever occurring, of any mine, bomb, shell, grenade, or other projectile, missile, munition, or explosive of war, shall be deemed to be a consequence of the said special risks.

65.5 **Increased Costs arising from Special Risks**

Save to the extent that the Contractor is entitled to payment under any other provision of the Contract, the Employer shall repay to the Contractor any costs of the execution of the Work (other than such as may be attributable to the cost of reconstructing work condemned under the provisions of Clause 39 prior to the occurrence of any special risk) which are howsoever attributable to or consequent on or the result of or in any way whatsoever connected with the said special risks, subject however to the provisions in this Clause hereinafter contained in regard to outbreak of war, but the Contractor shall, as soon as any such cost comes to his knowledge, forthwith notify the Engineer thereof. The Engineer shall, after due consultation with the Employer and the Contractor, determine the amount of the Contractor's costs in respect thereof which shall be added to the Contract Price and shall notify the Contractor accordingly, with a copy to the Employer.

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65.6 **Outbreak of War**

If, during the currency of the Contract, there is an outbreak of war, whether war is declared or not, in any part of the world which, whether financially or otherwise, materially affects the execution of the Works, the Contractor shall, unless and untill the Contract is terminated under the provisions of this Clause, continue to use his best endeavour to complete the execution of the Works. Provided that the Employer shall be entitled, at any time after such outbreak of war, to terminate the Contract by giving notice to the Contractor and, upon such notice being given, the Contract shall, except as to the rights of the parties under this clause and Clause 67, terminate, but without prejudice to the rights of either party in respect of any antecedent breach thereof.

65.7 **Removal of Contractor's Equipment on Termination**

If the Contract is terminated under the provisions of Sub-Clause 65.6, the Contractor shall, with all reasonable dispatch, remove from the Site all Contractor's Equipment and shall give similar facilities to his Subcontractors to do so.

65.8 **Payment if Contract Terminated**

If the Contract is terminated as aforesaid, the Contractor shall be paid by the Employer, insofar as such amounts or items have not already been covered by payments on account made to the Contractor, for all work executed prior to the date of termination at the rates and prices provided in the Contract and in addition:

(a) the amounts payable in respect of any preliminary items referred to in the Bill of Quantities, so far as the work or service comprised therein has been carried out or performed, and a proper portion of any such items which have been partially carried out or performed;

(b) the cost of materials, Plant or goods reasonably ordered for the Works which have been delivered to the Contractor or of which the Contractor is legally liable to accept delivery, such materials, Plant or goods becoming the property of the Employer upon such payments being made by him;

(c) a sum being the amount of any expenditure reasonably incurred by the Contractor in the expectation of completing the whole of the Works insofar as such expenditure has not been covered by any other payments referred to in this Sub-Clause;

(d) any additional sum payable under the provisions of Sub-Clauses 65.3 and 65.5;

(e) such proportion of the cost as may be reasonable, taking into account payments made or to be made for work executed, of removal of Contractor's Equipment under Sub-Clause 65.7 and, if required by the Contractor, return thereof to the Contractor's main plant yard in his country of registration or to other destination, at no greater cost; and

(f) the reasonable cost of repatriation of all the Contractor’s staff and workmen employed on or in connection with the Works at the time of such termination.

Provided that against any payment due from the Employer under this Sub-Clause, the Employer shall be entitled to be credited with any outstanding balances due from the Contractor for advances in respect of Contractor's Equipment, materials and Plant and any other sums which, at the date of termination, were recoverable by the Employer from the Contractor under the terms of Contract. Any sums payable under this Sub-Clause shall, after due consultation with the Employer and the Contractor, be determined by the Engineer who shall notify the Contractor accordingly, with a copy to the Employer.

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Release from Performance

66.1 **Payment in Event of Release from Performance**

If any circumstance outside the control of both parties arises after the issue of the Letter of Acceptance which renders it impossible or unlawful for either party to fulfill his or their contractual obligations, or under the law governing the Contract the parties are released from further performance, then the parties shall be discharged from the Contract, except as to their rights under this Clause and Clause 67 and without prejudice to the rights of either party in respect of any antecedent breach of the Contract, and the sum payable by the Employer to the Contractor in respect of the work executed shall be the same as that which would have been payable under Clause 65 if the Contract had been terminated under the provisions of Clause 65.

Settlement of Disputes

67.1 **Engineer's Decision**

If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with, or arising out of, the Contract or the execution of the Works, whether during the execution of the Works or after their completion and whether before or after repudiation or other termination of the Contract, including any dispute as to any opinion, instruction, determination, certificate or valuation of the Engineer, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the eighty-fourth day after the day on which he received such reference the Engineer shall give notice of his decision to the Employer and the Contractor. Such decision shall state that it is made pursuant to this Clause.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the Works with all due diligence and the Contractor and the Employer shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided, in an amicable settlement or an arbitral award.

If either the Employer or the Contractor be dissatisfied with any decision of the Engineer, or if the Engineer fails to give notice of his decision on or before the eighty-fourth day on which he received the reference, then either the Employer or the Contractor may, on or before the seventieth day after the day on which he received notice of such decision, or on or before the seventieth day after the day on which the said period of 84 days expired, as the case may be, give notice to the other party, with a copy for information to the Engineer, of his intention to commence arbitration, as hereinafter provided, as to the matter in dispute. Such notice shall establish the entitlement of the party giving the same to commence arbitration, as hereinafter provided, as to such dispute and, subject to Sub-Clause 67.4, no arbitration in respect thereof may be commenced unless such notice is given.

If the Engineer has given notice of his decision as to a matter in dispute to the Employer and the Contractor and no notice of intention to commence arbitration as to such dispute has been given by either the Employer or the Contractor on or before the seventieth day after the day on which the parties received notice as to such decision from the Engineer, the said decision shall become final and binding upon the Employer and the Contractor.

67.2 **Amicable Settlement**

Where notice of intention to commence arbitration as to a dispute has been given in accordance with Sub-Clause 67.1, the parties shall attempt to settle such dispute amicably before the commencement of arbitration. Provided that, unless the parties otherwise agree, arbitration may be commenced on or

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after the fifty-sixth day after the day on which notice of intention to commence arbitration of such dispute was given, even if no attempt at amicable settlement thereof has been made.

67.3 **Arbitration**

Any dispute in respect of which:

(a) the decision, if any, of the Engineer has not become final and binding pursuant to Sub-Clause 67.1, and
(b) amicable settlement has not been reached within the period stated in Sub-Clause 67.2,

shall be finally settled, unless otherwise specified in the Contract, under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed under such Rules. The said arbitrator/s shall have full power to open up, review and revise any decision, opinion, instruction, determination, certificate or valuation of the Engineer related to the dispute.

Neither party shall be limited in the proceedings before such arbitrator/s to the evidence or arguments put before the Engineer for the purpose of obtaining his said decision pursuant to Sub-Clause 67.1. No such decision shall disqualify the Engineer from being called as a witness and giving evidence before the arbitrator/s on any matter whatsoever relevant to the dispute.
Arbitration may be commenced prior to or after completion of the Works, provided that the obligations of the Employer, the Engineer and the Contractor shall not be altered by reason of the arbitration being conducted during the progress of the Works.

67.4 **Failure to Comply with Engineer's Decision**

Where neither the Employer nor the Contractor has given notice of intention to commence arbitration of a dispute within the period stated in Sub-Clause 67.1 and the related decision has become final and binding, either party may, if the other party fails to comply with such decision, and without prejudice to any other rights it may have, refer the failure to arbitration in accordance with Sub-Clause 67.3. The provisions of Sub-Clause 67.1 and 67.2 shall not apply to any such reference.

Notices

68.1 **Notice to Contractor**

All certificates, notices or instructions to be given to the Contractor by the Employer or the Engineer under the terms of the Contract shall be sent by post, cable, telex or facsimile transmission to or left at the Contractor's principal place of business or such other address as the Contractor shall nominate for that purpose.

68.2 **Notice to Employer and Engineer**

Any notice to be given to the Employer or to the Engineer under the terms of the Contract shall be sent by post, cable, telex or facsimile transmission to or left at the respective addresses nominated for that purpose in Part II of these Conditions.

68.3 **Change of Address**

Either party may change a nominated address to another address in the country where the Works are being executed by prior notice to the other party, with a copy to the Engineer, and the Engineer may do so by prior notice to both parties.

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Default of Employer

69.1 **Default of Employer**

In the event of the Employer:

(a) failing to pay to the Contractor the amount due under any certificate of the Engineer within 28 days after the expiry of the time stated in Sub-Clause 60.10 within which payment is to be made, subject to any deduction that the Employer is entitled to make under the Contract,

(b) interfering with or obstructing or refusing any required approval to the issue of any such certificate,

(c) becoming bankrupt or, being a company, going into liquidation, other than for the purpose of a scheme of reconstruction or amalgamation, or

(d) giving notice to the Contractor that for economic reasons it is impossible for him to continue to meet his contractual obligations,

the Contractor shall be entitled to terminate his employment under the Contract by giving notice to the Employer, with a copy to the Engineer. Such termination shall take effect 14 days after the giving of the notice.

69.2 **Removal of Contractor's Equipment**

Upon the expiry of the 14 days' notice referred to in Sub-Clause 69.1, the Contractor shall, notwithstanding the provisions of Sub-Clause 54.1, with all reasonable despatch, remove from the Site all Contractor's Equipment brought by him thereon.

69.3 **Payment on Termination**

In the event of such termination the Employer shall be under the same obligations to the Contractor in regard to payment as if the Contract had been terminated under the provisions of Clause 65, but, in addition to the payments specified in Sub-Clause 65.8, the Employer shall pay to the Contractor the amount of any loss or damage to the Contractor arising out of or in connection with or by consequence of such termination.

69.4 **Contractor's Entitlement to Suspend Work**

Without prejudice to the Contractor's entitlement to interest under Sub-Clause 60.10 and to terminate under Sub-Clause 69.1, the Contractor may, if the Employer fails to pay the Contractor the amount due under any certificate of the Engineer within 28 days after the expiry of the time stated in Sub-Clause 60.10 within which payment is to be made, subject to any deduction that the Employer is entitled to make under the Contract, after giving 28 days' prior notice to the Employer, with a copy to the Engineer, suspend work or reduce the rate of work.

If the Contractor suspends work or reduces the rate of work in accordance with the provisions of this Sub-Clause and thereby suffers delay or incurs costs the Engineer shall, after due consultation with the Employer and the Contractor, determine:

(a) any extension of time to which the Contractor is entitled under Clause 44, and
(b) the amount of such costs, which shall be added to the Contract Price,

and shall notify the Contractor accordingly, with a copy to the Employer.

69.5 **Resumption of Work**

Where the Contractor suspends work or reduces the rate of work, having given notice in accordance with Sub-Clause 69.4, and the Employer subsequently pays the amount due, including interest pursuant to Sub-Clause 60.10, the Contractor's entitlement under Sub-Clause 69.1 shall, if notice of termination has not been given, lapse and the Contractor shall resume normal working as soon as is reasonably possible.

Changes in Cost and Legislation

70.1 **Increase or Decrease of Cost**

There shall be added to or deducted from the Contract Price such sums in respect of rise or fall in the cost of labour and/or materials or any other matters affecting the cost of the execution of the Works as may be determined in accordance with part II of these Conditions.

70.2 **Subsequent Legislation**

If, after the date 28 days prior to the latest date for submission of tenders for the Contract there occur in the country in which the Works are being or are to be executed changes to any National or State Statute, Ordinance, Decree or other Law or any regulation or bye-law of any local or other duly constituted authority, or the introduction of any such State Statute, Ordinance, Decree, Law, regulation or bye-law which causes additional or reduced cost to the Contractor, other than under Sub-Clause 70.1, in the execution of the Contract, such additional or reduced cost shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be added to or deducted from the Contract Price and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

Currency and Rates of Exchange

71.1 **Currency Restrictions**

If, after the date 28 days prior to the latest date for submission of tenders for the Contract, the Government or authorized agency of the Government of the country in which the Works are being or are to be executed imposes currency restrictions and/or transfer of currency restrictions in relation to the currency or currencies in which the Contract Price is to be paid, the Employer shall reimburse any loss or damage to the Contractor arising therefrom, without prejudice to the right of the Contractor to exercise any other rights or remedies to which he is entitled in such event.

72.1 **Rates of Exchange**

Where the Contract provides for payment in whole or in part to be made to the Contractor in foreign currency or currencies, such payment shall not be subject to variations in the rate or rates of exchange between such specified foreign currency or currencies and the currency of the country in which the Works are to be executed.

72.2 **Currency Proportions**

Where the Employer has required the Tender to be expressed in a single currency but with payment to be made in more than one currency and the Contractor has stated the proportions or amounts of other currency or currencies in which he requires payment to be made, the rate or rates of exchange applicable for calculating the payment of such proportions or amounts shall, unless otherwise stated in Part II of these Conditions, be those prevailing, as determined by the Central Bank of the country in which the Works are to be executed, on the date 28 days prior to the latest date for the submission

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of tenders for the Contract, as has been notified to the Contractor by the Employer prior to the submission of tenders or as provided for in the Tender.

72.3 **Currencies of Payment for Provisional Sums**

Where the Contract provides for payment in more than one currency, the proportions or amounts to be paid in foreign currencies in respect of Provisional Sums shall be determined in accordance with the principles set forth in Sub-Clauses 72.1 and 72.2 as and when these sums are utilised in whole or in part in accordance with the provisions of Clauses 58 and 59.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PART-II, Particular Conditions of Contract

PART II - PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

(a) (i) **The Employer** is:

Chief Executive Officer
(Senior General Manager)
Pakistan Railways
Headquarter Office
Empress Road, Lahore

(Hereinafter called the "Employer" which expression shall include the successors legal representatives and permitted assignees)

(a) (ii) **The Employer's** Representative is:

Chief Controller of Purchase
Pakistan Railways
Headquarter Office
Empress Road, Lahore

(a) (iv)**The Engineer** will be appointed by the Employer within due to time after award of agreement. The Employer can change the Engineer and notified to the Contractor, to act in replacement of the Engineer. Provided always that except in cases of professional misconduct, the outgoing Engineers is to formulate his certifications/ recommendations in relation to all outstanding matters, disputes and claims relating to the execution of the Works during his tenure.

The following paragraph is added:

(a)(vi) "Bidder or Tenderer" means any company, corporation, firm or joint venture submitting a Bid or Tender.

(b)(v) The following is added at the end of the paragraph:

The word "Tender" is synonymous with "Bid" and the word "Tender Documents" with "Bidding Documents".

The following paragraph is added:

(b)(ix) **"Programme"** means the programme to be submitted by the Contractor in accordance with Sub-Clause 14.1 and any approved revisions thereto.

(e)(i) The text is deleted and substituted with the following:

"Contract Price" means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works subject to such additions thereto or deductions therefrom as may be made and remedying of any defects therein in accordance with the provisions of the Contract.

2.1 Engineer's Duties and Authority

With reference to Sub-Clause 2.1(b), the following provisions shall also apply;

The Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses:

(i) Consenting to the sub-letting of any part of the Works under Sub-Clause 4.1 "Subcontracting".

(ii) Certifying additional cost determined under Sub-Clause 12.2 "Not Foreseeable Physical Obstructions or Conditions".

(iii) Any action under Clause 10 "Performance Security" and Clauses 21,23,24 & 25 "Insurance" of sorts.

(iv) Any action under Clause 40 "Suspension".

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(v) Any action under Clause 44 “Extension of Time for Completion”.

(vi) Any action under Clause 47 “Liquidated Damages for Delay”

(vii) Issuance of “Taking over Certificate” under Clause 48.

(viii) Issuing a Variation Order under Clause 51,except:

a) in an emergency* situation, as stated here below, or

b) if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to Bid.

(ix) Fixing rates or prices under Clause 52.

(x) Extra payment as a result of Contractor’s claims under Clause 53.

(xi) Release of Retention Money to the Contractor under Sub-Clause 60.3 “Payment of Retention Money”.

(xii) Issuance of “Final Payment Certificate” under Sub-Clause 60.8.

(xiii) Issuance of “Defect Liability Certificate” under Sub-Clause 62.1.

(xiv) Any change in the ratios of Contract currency proportions and payments thereof under Clause 72 “Currency and Rate of Exchange”.

* (If in the opinion of the Engineer an emergency occurs affecting the safety of life or of the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibilities under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply 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 52 and shall notify the Contractor accordingly, with a copy to the Employer.)

2.2 Engineer’s Representative

The following paragraph is added:

The Employer shall ensure that the Engineer’s Representative is a professional engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976).

The following Sub-Clauses 2.7 and 2.8 are added:

2.7 Engineer Not Liable

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

2.8.1 Replacement of the Engineer

“If the Employer intends to replace the Engineer, the Employer shall, not less than 14 days before the intended date of replacement, give notice to the Contractor, of the name, address and relevant

experience of the intended replacement Engineer. The Employer shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Employer, with supporting particulars."

5.1Language(s) and Law

(a) The Contract Documents shall be drawn up in the English language.
(b) The Contract shall be subject to the Laws of Islamic Republic of Pakistan.

5.2 Priority of Contract Documents

The documents listed at (1) to (6) of the Sub-Clause are deleted and substituted with the following:

1) The Contract Agreement (if completed);
2) The Letter of Acceptance;
3) The completed Forms of Bid;
4) Addenda(s) if any;
5) Special Stipulations (Appendix-A to Bid);
6) The Particular Conditions of Contract, Part-II;
7) The General Conditions of Contract, Part-I;
8) The Specification - Special Provisions
9) The priced Bill of Quantities (Appendix-D to Bid);
10) The completed Appendices to Bid (B, C, E to M);
11) The Specifications and Drawings;

9.1 Contract Agreement

Sub – clause 9.1 is deleted and replaced as below:

The Contractor shall enter into a Contract Agreement with the Employer within 21 Calendar days after the receipt of Letter of Acceptance and shall provide 2-copies of the contract documents in bound form which shall be enclosed with the Performance Guarantee, Insurance Policies/ Bonds and other Bond/ Guarantee/ Sureties prepared and completed at the cost of the Contractor.

10.1 Performance Security

The text is deleted and substituted with the following:

The Contractor shall provide Performance Security to the Employer in the prescribed form annexed to these Conditions. The said Security shall be furnished or caused to be furnished by the Contractor within 28 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 05% of the Contract Price stated in the Letter of Acceptance against unconditional Bank Guarantee from Scheduled Bank in Pakistan.

The cost of complying with requirements of this Sub-Clause shall be borne by the Contractor.

The following Sub-Clause 10.4 is added:

10.4 Performance Security Binding on Variations and Changes

The Performance Security shall be binding irrespective of changes in the quantities or variations in the Works or extensions in Time for Completion of the Works which are granted or agreed upon under the provisions of the Contract.

14.1 Programme to be submitted

The programme shall be submitted within 14 days from the date of receipt of Letter of Acceptance, which shall be in the form of:

i) Project Monitoring & Evaluation using Primavera

14.3 Cash Flow Estimate to be submitted

The detailed Cash Flow Estimate shall be submitted within 21 days from the date of receipt of Letter of Acceptance

The following Sub-Clause 14.5 is added:

14.5 Detailed Programme and Monthly Progress Report

a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:

(1) Execution of Works;
(2) Labour Employment;
(3) Local Material Procurement;
(4) Material Imports, if any; and
(5) Other details as required by the Engineer.

(b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, 6 copies each of Monthly Progress Reports covering:

1) A Construction Schedule indicating the monthly progress in percentage;
2) Description of all work carried out since the last report;
3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
4) Monthly summary of daily job record;
5) Photographs to illustrate progress; and
6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.

(c) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

The following Sub-Clauses 15.2 and 15.3 are added:

15.2 Language Ability of Contractor's Representative

The Contractor's authorized representative shall be fluent in the English or Urdu language. Alternately an interpreter with ability of English or Urdu language shall be provided by the Contractor on full-time basis.

15.3 Contractor's Representative

The Contractor's authorised representative and his other professional engineers working at Site shall register themselves with the Pakistan Engineering Council.

The Contractor's authorised representative at Site shall be authorised to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.

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The following Sub-Clauses 16.3 and 16.4 are added:

16.3 Language Ability of Superintending Staff of Contractor

A reasonable proportion of the Contractor's superintending staff shall have a working knowledge of the English or Urdu language. If the Contractor's superintending staff is not fluent in English or Urdu language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

16.4 Employment of Local Personnel

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within respective District of Pakistan.

The following Sub-Clauses 19.3 and 19.4 are added:

19.3 Safety Precautions

In order to provide for the safety, health and welfare of' persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorise or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose.

The Contractor shall make, maintain and submit reports to the Engineer concerning safety, health and welfare of persons and damage to property, as the Engineer may from time to time prescribe.

19.4 Lighting Work at Night

In the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night-work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer's Representative.

20.4 Employer's Risks

The Employer's risks are:
Delete the text and substitute with the following:

(a) insofar as they directly affect the execution of the Works in Pakistan:

- (i) War and hostilities (whether war be declared or not), invasion, act of foreign enemies,
- (ii) Rebellion, revolution, insurrection, or military or usurped power, or civil war,
- (iii) ionizing radiations, or contamination by radioactivity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,
- (iv) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,
- (v) Riot, commotion or disorder, unless solely restricted to the employees of the Contractor or of his Subcontractors and arising from the conduct of the Works;

(b) Loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract;

(c) Loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible; and

(d) Any operation of the forces of nature (insofar as it occurs on the Site) which an experienced contractor:

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(1) Could not have reasonably foreseen, or

(2) Could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures:

(i) Prevent loss or damage to physical property from occurring by taking appropriate measures, or

(ii) Insure against.

21.1 Insurance of works and Constructor's Equipment

The text may be consider as deleted.

21.4 Exclusions

The text is deleted and substituted with the following:

There shall be no obligation for the insurances in Sub-Clause 21.1 to include loss or damage caused by the risks listed under Sub-Clause 20.4 paras (a) (i) to (iv).

The following Sub-Clause 25.5 is added:

25.5 Insurance Company

The Contractor shall be obliged to place all insurances relating to the Contract (including, but not limited to, the insurances referred to in Clauses 21, 23 and 24) with either National Insurance Company of Pakistan or any other insurance company operating in Pakistan and rated AA by PACRA.

Costs of such insurances shall be borne by the Contractor.

The following Sub-Clause 31.3 is added:

31.3 Co-operation with other Contractors

During the execution of the Works, the Contractor shall co-operate fully with other contractors working for the Employer at and in the vicinity of the Site and also shall provide adequate precautionary facilities not to make himself a nuisance to local residents and other contractors.

The following Sub-Clauses 34.2 to 34.12 are added:

34.2 Rates of Wages and Conditions of Labour

The Contractor shall pay rates of wages and observe conditions of labour not less favourable than those established for the trade or industry where the work is carried out. In the absence of any rates of wages or conditions of labour so established, the Contractor shall pay rates of wages and observe conditions of labour which are not less favourable than the general level of wages and conditions observed by other employers whose general circumstances in the trade or in industry in which the Contractor is engaged are similar.

34.3 Employment of Persons in the Service of Others

The Contractor shall not recruit his staff and labour from amongst the persons in the services of the Employer or the Engineer; except with the prior written consent of the Employer or the Engineer, as the case may be.

34.4 Housing for Labour

Save insofar as the Contract otherwise provides, the Contractor shall provide and maintain such housing accommodation and amenities as he may consider necessary for all his supervisory staff and labour, employed for the purposes of or in connection with the Contract including all fencing,

electricity supply, sanitation, cookhouses, fire prevention, water supply and other requirements in connection with such housing accommodation or amenities. On completion of the Contract, these facilities shall be handed over to the Employer or if the Employer so desires, the temporary camps or housing provided by the Contractor shall be removed and the Site reinstated to its original condition, all to the approval of the Engineer.

34.5 Health and Safety

Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of his staff and labour at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements.

34.6 Epidemics

In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government, or the local medical or sanitary authorities, for purpose of dealing with and overcoming the same.

34.7 Supply of Water

The Contractor shall, so far as is reasonably practicable, having regard to local conditions**,** provide on the Site, to the satisfaction of the Engineer or his representative, adequate supply of drinking and other water for the use of his staff and labour.

34.8 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his Subcontractors, agents, staff or labour.

34.9 Arms and Ammunition

The Contractor shall not give, or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid.

34.10 Festivals and Religious Customs

The Contractor shall in all dealings with his staff and labour have due regard to all recognised festivals, days of rest and religious and other customs.

34.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst staff and labour and for the preservation of peace and protection of persons and property in the neighbourhood of the Works against the same.

34.12 Compliance by Subcontractors

The Contractor shall be responsible for compliance by his Subcontractors of the provisions of this Clause.

The following Sub-Clauses 35.2 and 35.3 are added:

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35.2 Records of Safety and Health

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

35.3 Reporting of Accidents

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.

The following Sub-Clause 36.6 is added:

36.6 Use of Pakistani Materials and Services

The Contractor shall, so far as may be consistent with the Contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

41.1 Commencement of Works

The text is deleted and substituted with the following:

The Contractor shall commence the Works on Site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the Contractor shall proceed with the Works with due expedition and without delay.

44.1 Extension of Time for Completion

The following text is added at the end of the sub clause:

The Employer, with the recommendations of the Engineer may extend the time for completion with or without imposition of Liquidated Damages.

47.3 Bonus for Early Completion of Works

The Contractor shall in case of earlier completion for either whole or part(s) of the Works pursuant to Sub-Clauses 48.1 and 48.2(a) respectively of the General Conditions of Contract, be paid bonus up-to a limit and at a rate prescribed in Appendix-A to Bid “Special Stipulations”.

48.2 Taking Over of Sections or Parts

For the purposes of para (a) of this Sub-Clause, separate Times for Completion shall be provided in the Appendix-A to Bid “Special Stipulations”.

51.2 Instructions for Variations

At the end of the first sentence, after the word “Engineer", the words “in writing” are added.

52.1 Valuation of Variations

In the tenth line, after the words “Engineer shall” the following is added:
Within a period not exceeding one-eighth of the completion time subject to a minimum of 56 days from the date of disagreement whichever is later.

53.4 Failure to Comply

This Sub-Clause is deleted in its entirety.

54.3 Customs Clearance

This Sub-Clause is deleted in its entirety.

54.5 Conditions of Hire of Contractor's Equipment

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item of hired Contractor's Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

The following Sub-Clauses 59.4 & 59.5 are added:

59.4 Payments to Nominated Subcontractors

The Contractor shall pay to the nominated Subcontractor the amounts which the Engineer certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with Clause 58 [Provisional Sums], except as stated in Sub-Clause 59.5 [Certification of Payments].

59.5 Certification of Payments & Nominated Subcontractors

Before issuing a Payment, Certificate which includes an amount payable to a nominated Subcontractor, the Engineer may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:

a) Submits reasonable evidence to the Engineer, or
b) i) satisfies the Engineer in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
   ii) submits to the Engineer reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement,

then the Employer may (at his sole discretion) pay direct to the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Employer, the amount which the nominated Subcontractor was directly paid by the Employer.

60.1 Monthly Statements

In the first line after the word "shall", the following is added:

"on the basis of the joint measurement of work done under Clause 56.1,"

The para (c) is deleted.

60.10 Time for Payment

The text is deleted and substituted with the following:

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The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall, subject to Clause 47, be paid by the Employer to the Contractor within 28 days after such Interim Payment Certificate has been delivered to the Employer or, in the case of the Final Certificate referred to in Sub Clause 60.8, within 56 days after such Final Payment Certificate has been delivered to the Employer. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor interest at the rate as stated in the Appendix 'A' to Bid, upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 69.

The following Sub-Clause 60.11 is added:

60.11 Financial Assistance to Contractor

Financial assistance shall be made available to the Contractor by the Employer by adopting the following**:**

Mobilization Advance

(a) An interest-free Mobilization Advance up to 15 % of the Contract Price stated in the Letter of Acceptance shall be paid by the Employer to the Contractor in two equal parts upon submission by the Contractor of a Mobilization Advance Guarantee/ Bond for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan:

(1) First part within 14 days after signing of the Contract Agreement or date of receipt of Engineer's Notice to Commence, whichever is earlier; and

(2) Second part within 42 days from the date of payment of the first part, subject to the satisfaction of the Engineer as to the state of mobilization of the Contractor.

(b) This Advance shall be recovered in equal instalments; first instalment at the expiry of third month after the date of payment of first part of Advance and the last instalment two months before the date of completion of the Works as per Clause 43 hereof.

The following sub clause 60.12 is added

60.12 Secured Advance on Materials

a) The Contractor shall be entitled to receive from the Employer Secured Advance against an indemnity bond acceptable to the Employer of such sum as the Engineer may consider proper in respect of such non-perishable materials as are brought at the Site and are directed by the Engineer, but not yet incorporated in the Permanent Works provided that:

(1) the materials are in accordance with the Specifications for the Permanent Works;

(2) Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction of the Engineer but at the risk and cost of the Contractor;

(3) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer and the Employer;

(4) The Contractor shall submit with his monthly statement the estimated value of the materials on Site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefor;

(5) Ownership of such materials shall be deemed to vest in the Employer and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Employer; and

(6) The sum payable for such materials on Site shall not exceed 75 % of the

(i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of other materials.

(b) The recovery of Secured Advance paid to the Contractor under the above provisions shall be deducted from the monthly payments on actual consumption basis.

63.1 Default of Contractor

The following para is added at the end of the Sub-Clause:

Provided further that in addition to the action taken by the Employer against the Contractor under this Clause, the Employer may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.

65.2 Special Risks

The text is deleted and substituted with the following:

The Special Risks are the risks defined under Sub-Clause 20.4 sub paragraphs (a) (i) to (a) (v).

65.6 Out Break of War

In Sub-Clause 65.6, delete "in any part of the World" from the second line of the paragraph.

67. 3 Arbitration

In the sixth to eight lines, the text "shall be finally settled ..... appointed under such Rules" are deleted and substituted with the following:

shall be finally settled under the provisions of the Arbitration Act, 1940 as amended or any statutory modification or re-enactment thereof for the time being in force.

The following paragraph is added:
The place of arbitration shall be Lahore, Pakistan.

68.1 Notice to Contractor

The following paragraph is added:
For the purposes of this Sub-Clause, the Contractor shall, immediately after receipt of Letter of Acceptance, intimate in writing to the Employer and the Engineer by registered post, the address of his principal place of business or any change in such address during the period of the Contract.

68.2 Notice to Employer and Engineer

For the purposes of this Sub-Clause, the respective addresses are:

a) The Employer:
Chief Executive Officer
(Senior General Manager)
Pakistan Railways
Headquarters Office
Empress Road, Lahore

(hereinafter called the "Employer" which expression shall include the successors, legal representatives and permitted assignees)

b) The Engineer: Shall be notified by the Employer within 14 days after execution of Contract Agreement.

70.1 Increase or Decrease of Cost

Sub-Clause 70.1 is amended as below: -
The Price Adjustment will be allowed as per Pakistan Engineering Council formula as per details given in Appendix-C to Bid.

The following Sub-Clauses 73.1, 74.1, 75.1, 76.1, 77.1and 78.1 are added:

73.1 Payment of Income Tax

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract
and the rates and prices stated in the Contract shall be deemed to cover all such taxes.

74.1 Integrity Pact

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the Employer shall be entitled to:

(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;

(b) terminate the Contract; and

(c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under Sub-Para (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clauses 63.1 to 63.4 and the payment under Sub-Clause 63.3 shall be made after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

75.1 Termination of Contract for Employer's Convenience

The Employer shall be entitled to terminate the Contract at any time for the Employer's convenience after giving 56 days prior notice to the Contractor, with a copy to the Engineer. In the event of such termination, the Contractor:

(a) shall proceed as provided in Sub-Clause 65.7 hereof; and

(b) shall be paid by the Employer as provided in Sub-Clause 65.8 hereof.

76.1 Liability of Contractor

The Contractor or his Subcontractors or assigns shall follow strictly, all relevant labour laws including the Workmen's Compensation Act and the Employer shall be fully indemnified for all claims, damages etc. arising out of any dispute between the Contractor, his Subcontractors or assigns and the labour employed by them.

77.1 Joint and Several Liability

If the Contractor is a joint venture of two or more persons, all such persons shall be jointly and severally bound to the Employer for the fulfilment of the terms of the Contract and shall designate one of such persons to act as leader with authority to bind the joint venture. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.

78.1 Details to be Confidential

The Contractor shall treat the details of the Contract as private and confidential, save in so far as may be necessary for the purposes thereof, and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the prior consent in writing of the Employer or the Engineer. If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the decision of the Engineer whose award shall be final.

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PART-III, SPECIAL PROVISIONS IN THE CONTRACT

PART-III SPECIAL PROVISIONS IN THE CONTRACT

Scope of Work

The scope of this project includes conversion of 30 un manned level crossings into manned level crossings. Conversion includes construction of road, duty hut, lever platforms & drains. Further, supply of gate leaves, signal items & P-Way items along with erection / installation is to be done by the bidder. All type of civil works, track works, signal & Telecommunications works and electrification works will be executed by the bidder as mentioned in the Priced BOQs in the financial proposal.

1. Earthwork for Connecting Road Embankment of Level Crossings

1.1. Execution of Earthwork

1.1.1. Earthwork shall be done with approved quality of soil brought from outside of Railway Boundary to recoup track embankment for maintaining standard of road as per drawing given by the employer.

1.1.2. Earthwork includes removal of all shrubs, bushes and other organic material, leveling the final surface, sprinkling of water, maximum compaction by mechanical means up to the satisfaction of Engineer In-Charge.

1.1.3. Earthwork will be carried out in horizontal layers in the presence of department's representative duly sprinkled and compacted by hand-driven roller or by mechanical means where possible.

1.1.4. Final layer of new earthwork should be compacted to achieve 90 to 95% maximum AASHTO dry Density by providing optimum moisture content, dressing and leveling according to designed section and grade complete in all respect.

1.1.5. Side slopes should be dressed up as per design and compacted properly.

1.1.6. The measurement of earthwork shall be taken in Cft and paid to the contractor as per X-Sections already signed by the Contractor and Engineer.

1.1.7. 05% deduction for shrinkage shall be made for the quantity of earthwork as per cross sections.

1.1.8. Unit of payment shall be per Cft.

1.1.9. Road will be completed in all respects with provisions of subbase, base and Premix asphalt as per AASHTO specifications.

2. Track (P-Way) works

2.1. Track works will be executed by the contractor as per drawing provided by the employer and instructions of the Engineer in charge.

2.2. All track material for conversion un-manned level crossing into manned level crossing according to the specifications will be arranged by the contractor at its own. However, the material not available in the market, will be provided by Railways at the cost of contractor (list of material required along with its cost is attached with financial proposal).

2.3. Laying of new track at Level Crossings with above mentioned track material, 30 cm ballast cushion, aligning packing and leveling complete in all respect.

2.4. All work will be done in accordance with approved Type Plan No. F-73 for Class-II Manned Level crossings.

2.5. Rail joints must be avoided within the length of length of level crossings.

2.6. On level crossing where density of road traffic is high, the contractor will provide a temporary diversion for road traffic and remove the same after completion of work.

3. Signaling & Telecommunication Works

3.1. All signaling and Telecommunication works will be executed by the contractor as per drawing provided by the employer and instructions of the Engineer in charge.

3.2. All signaling and Telecommunication material according to the specifications will be arranged by the contractor at its own. However, the material not available in the market, will be provided by Railways at the cost of contractor (list of material required along with its cost is attached with financial proposal).

3.3. All work will be done in accordance with approved Type Plan No. F-73 for Class-II Manned Level crossings.

4. **Civil & Electrical Works**

4.1. All Civil & Electrical works comprising construction of duty hut and lever platform, fencing, rod coupling along with drains, road works, supply & erecting of gate leaves, turnstile and solarization of duty hut etc will be carried out by the contractor in accordance with approved drawings and specifications attached with the bidding documents.

4.2. US Rails for gate post fencing, and rod coupling drains will be provided by Pakistan Railways.

5. Agreement for diversion of traffic

During the course of construction of L-xing, the temporary diversion be provided by contractor so that work road traffic can pass.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PAKISTAN RAILWAYS

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

Drawings

(To be submitted separately)

BIDDING DOCUMENTS

VOLUME-2

November – 2026

Chief Controller of Purchase
P.R Headquarters Office, Empress Road, Lahore
Phone: 042-.....

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

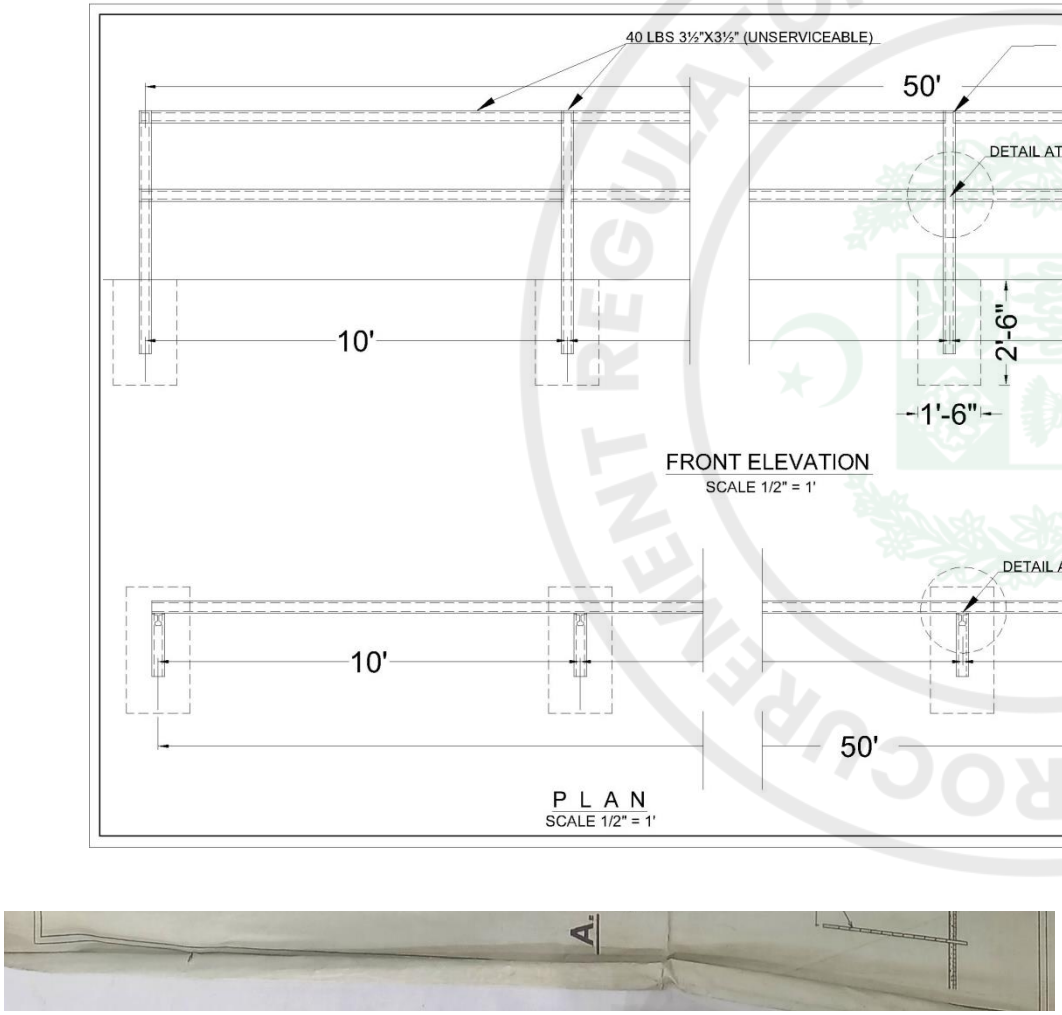
Details of Specifications and Drawings

- **Track Material**
  - Specifications and Drawings of Wooden Sleepers
  - Drawings of Fish Plate for 54 Kg Rails
  - Drawings of Fish Bolts & Nuts for 54 Kg Rails
  - Specifications for Earthwork
  - Specifications of Ballast
  - Specification for road work

    (sleepers to be deleted)

Technical Drawings

i. Rail fencing for level crossing
ii. Plan of RCC drain for road coupling arrangement F-45 for manned level crossings over Multan Division
iii. Type Turnstile
iv. New type plan of duty hut, equipment and bath rooms at manned level crossings special class, class I & II
v. 24 F Gate for special class level crossing
vi. Details of connections and locking arrangements for 24 gate
vii. Class –II level crossing (Old "B" & "C" class manned)



P.R. H.Q.E. PLAN NO. 32817

P.R. H.Q.E. TYPE PLAN NO. F-69

RAIL FENCING FOR LEVEL CROSSINGS

SCALE 1/2" & 1" = 1FOOT

P.R. H.Q.E. CASE NO. 480-W/0-VIII (W-2)

CANCELLED

H.Q.E. PLAN NO.

H.Q.E. TYPE PLAN NO.

NO	REV	INIT

-sd-4-2-85
CHIEF ENGINEER
P . R . LAHORE

-sd-2-2-85
DY:CHIEF ENGINEER(NORTH)
P . R . LAHORE

-sd-31-1-85
EXECUTIVE ENGINEER(DESIGN)
P . R . LAHORE

-sd-31-1-85
ASSISTANT ENGINEER(HQ)
P . R . LAHORE

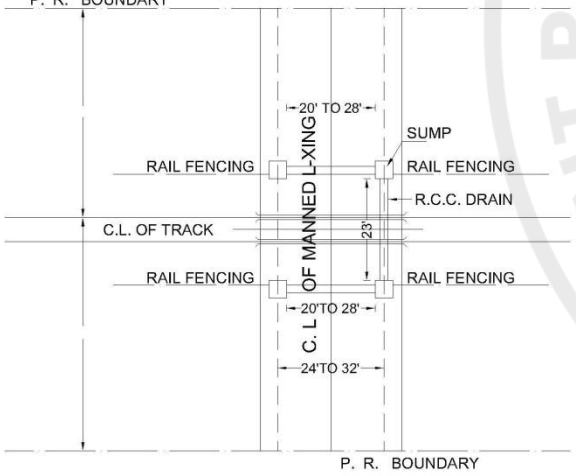
NOTE:
40 LBS TO 60LBS UNSERVICEABLE RAILS TO BE USED SUBJECT TO THE AVAILBILITY

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PUBLIC PROCUREMENT REGULATORY AUTHORITY

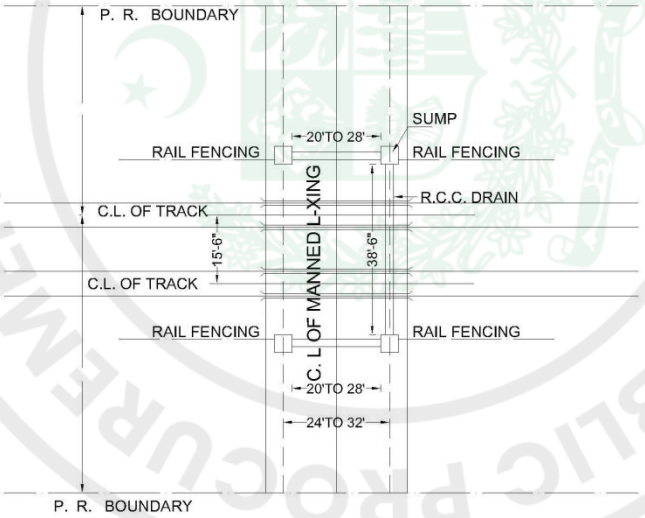
SITE PLAN OF SINGLE TRACK

SCALE = 1" = 20'



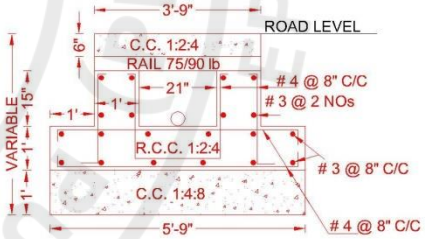
SITE PLAN OF DOUBLE TRACK

SCALE = 1" = 20'



NOTES:-

1. EXISTING WORK SHOWN IN BLACK(BLUE ON AMMUNIA PRINT).
2. THE DIVISIONAL ENGINEER SHOULD STAISFY HIM SELF THAT ALL THE MATERIAL USED IN THIS WORK IS FRESH AND AS PER PRESCRIBED IN THE SPECIFICATIONS AS SHOWN IN PLAN.
3. THE CONCRETE COVER SHOULD BE 1½" ON EVERY SIDE.



TYPICAL PLAN OF R.C.C. DRAIN

SCALE 1" = 2'

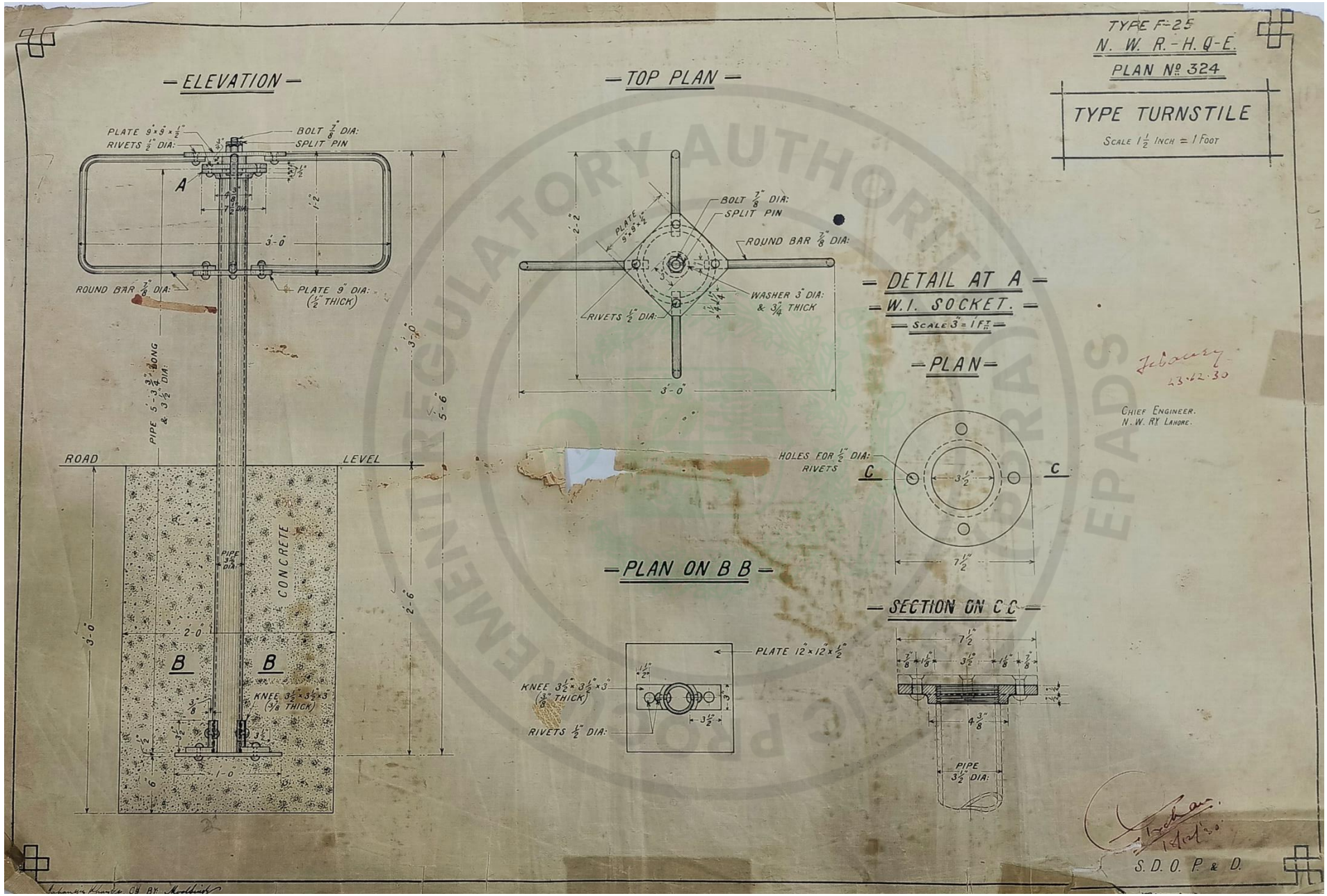
DIVISIONAL PLAN NO.

PLAN OF R.C.C. DRAIN FOR ROD COUPLING ARRAMGEMENT F-45 FOR MANNED LEVEL CROSSINGS OVER MULTAN DIVISION

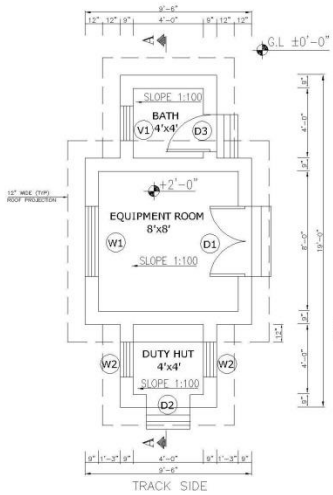
SCALE:- AS SHOWN

DIVISIONAL CASE NO. 18-WA/16/LON/2014

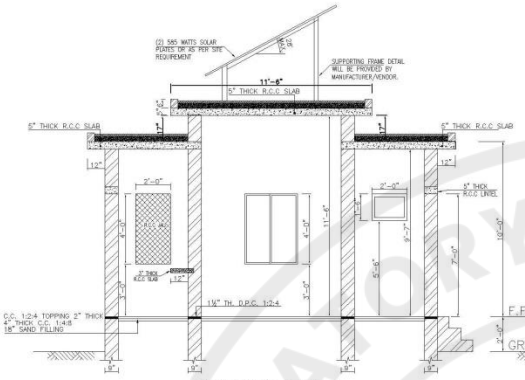
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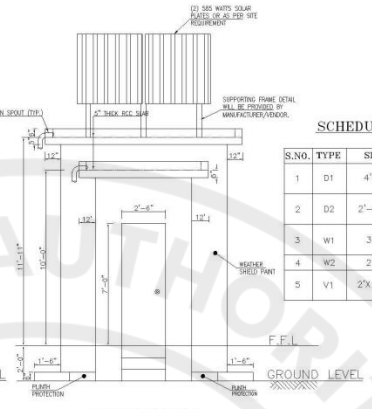
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PLAN



SECTION AT A-A



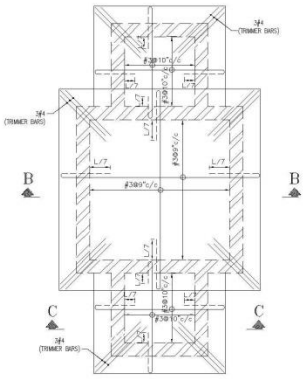
ELEVATION
(FROM TRACK SIDE)

SCHEDULE OF WINDOWS AND DOORS

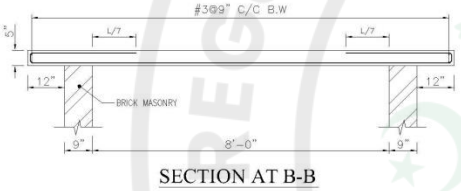
S.NO.	TYPE	SIZE	SILL	DESCRIPTION
1	D1	4'X7'	NIL	DOUBLE LEAVES OPENABLE STEEL PANELED DOOR INCLUDING LOCKING ARRANGEMENT
2	D2	2'-6"X7'	NIL	SINGLE LEAVE OPENABLE STEEL PANELED DOOR INCLUDING LOCKING ARRANGEMENT
3	W1	3'X4'	3'-0"	DOUBLE LEAVE OPENABLE STEEL AND GLAZED WITH WIRE GAUZE WINDOW
4	W2	2'X4'	3'-0"	R.C.C JALI
5	V1	2'X1'-6"	5'-6"	SINGLE LEAVE OPENABLE STEEL AND GLAZED WITH WIRE GAUZE VENTILATOR

P.R H.Q.E. TYPE PLAN NO.	O-69
NEW TYPE PLAN OF DUTY HUT, EQUIPMENT AND BATH ROOMS AT MANNED LEVEL CROSSINGS SPECIAL CLASS, CLASS I & II	
SCALE = AS SHOWN	
P.R H.Q. CASE NO.	60-W/51/KYC/2017(W3)
CANCEL, S	DIVISIONAL PLAN NO.

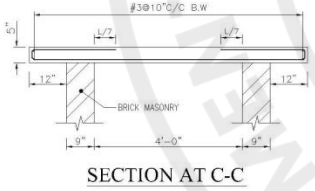
NO.	REV.	INITIALS	H.Q. E. PLAN/TYPE PLAN NO. O-67
			(MUHAMMAD IRFAN-UL-HAQ) CHIEF ENGINEER/O.L P.R. LAHORE
			(MUHAMMAD AHMAD QURESHI) DY.CHIEF ENGINEER /MIDDLE P.R. LAHORE
			(MUDASSIR SHAH) EXECUTIVE ENGINEER/HQ P.R. LAHORE
			(IBHARIM KHAN) ASST. EXECUTIVE ENGINEER /P-1 P.R. LAHORE



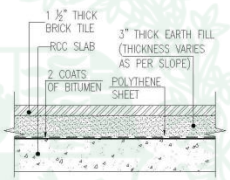
SLAB TOP AND BOTTOM REINF. PLAN



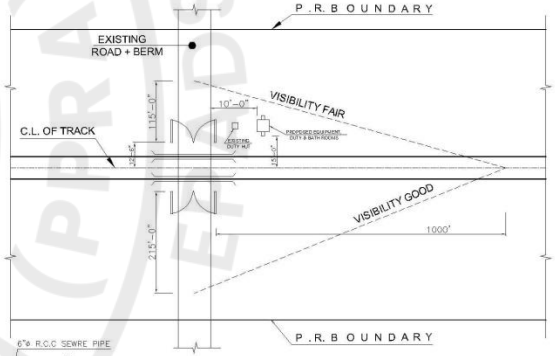
SECTION AT B-B



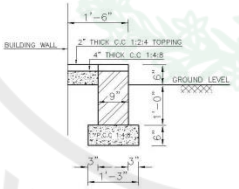
SECTION AT C-C



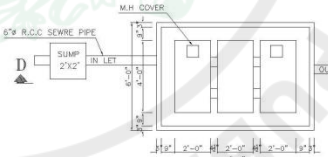
ROOFING DETAIL



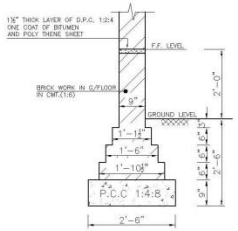
SITE PLAN
N.T.S



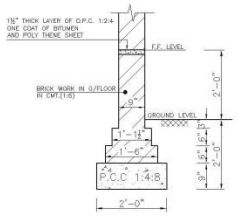
PLINTH PROTECTION
DETAIL



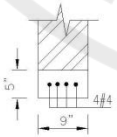
PLAN OF SEPTIC TANK



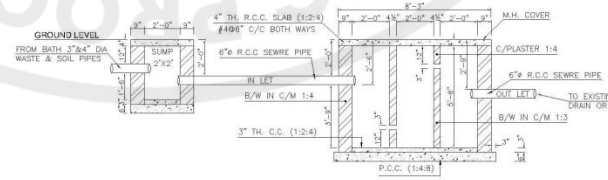
SECTION OF FOUNDATION
(EQUIPMENT ROOM)



SECTION OF FOUNDATION
(DUTY ROOM & BATH)



R.C.C 1:2:4 LINTEL DETAIL
(TYPICAL)



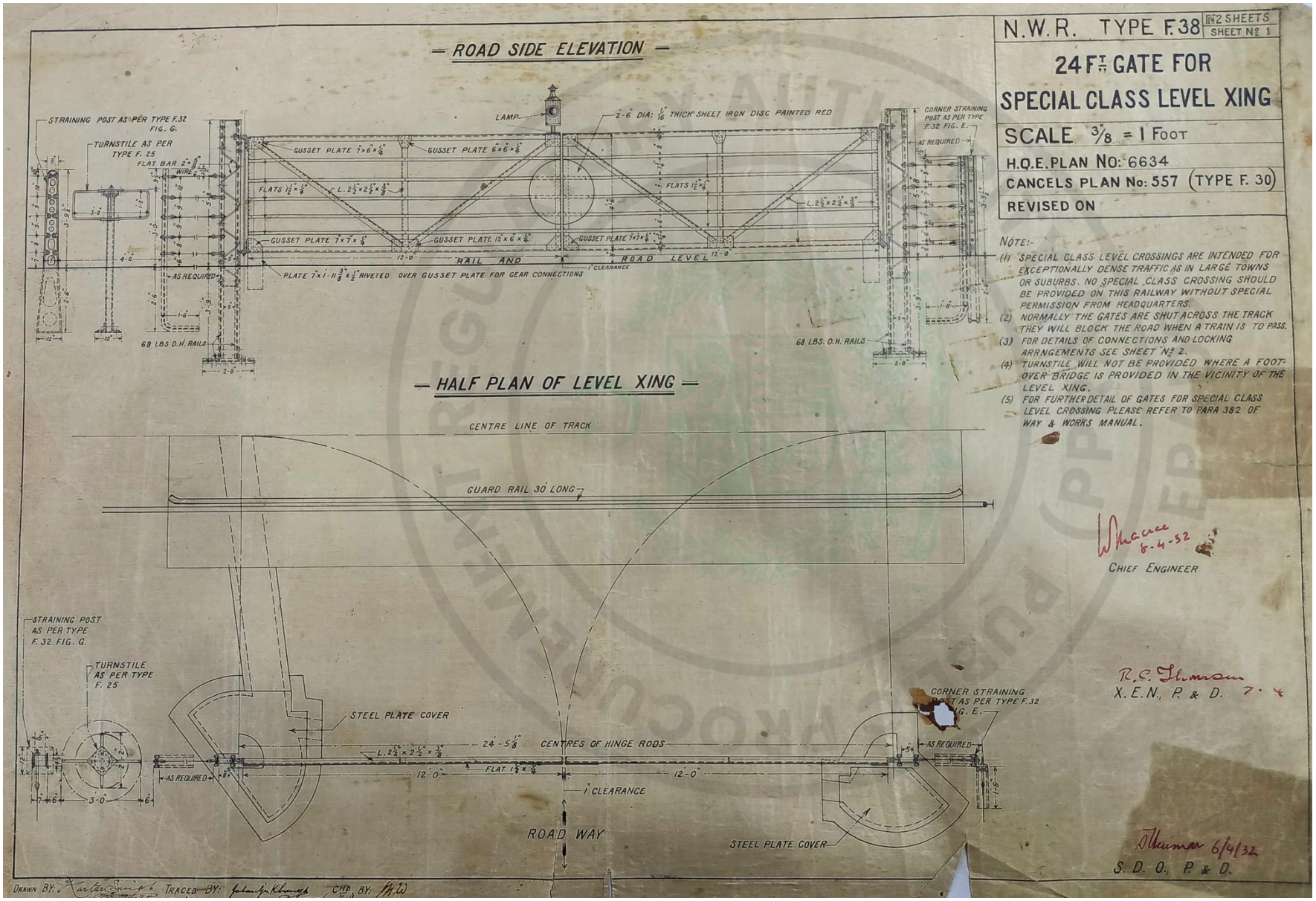
SECTION D-D

NOTES:-

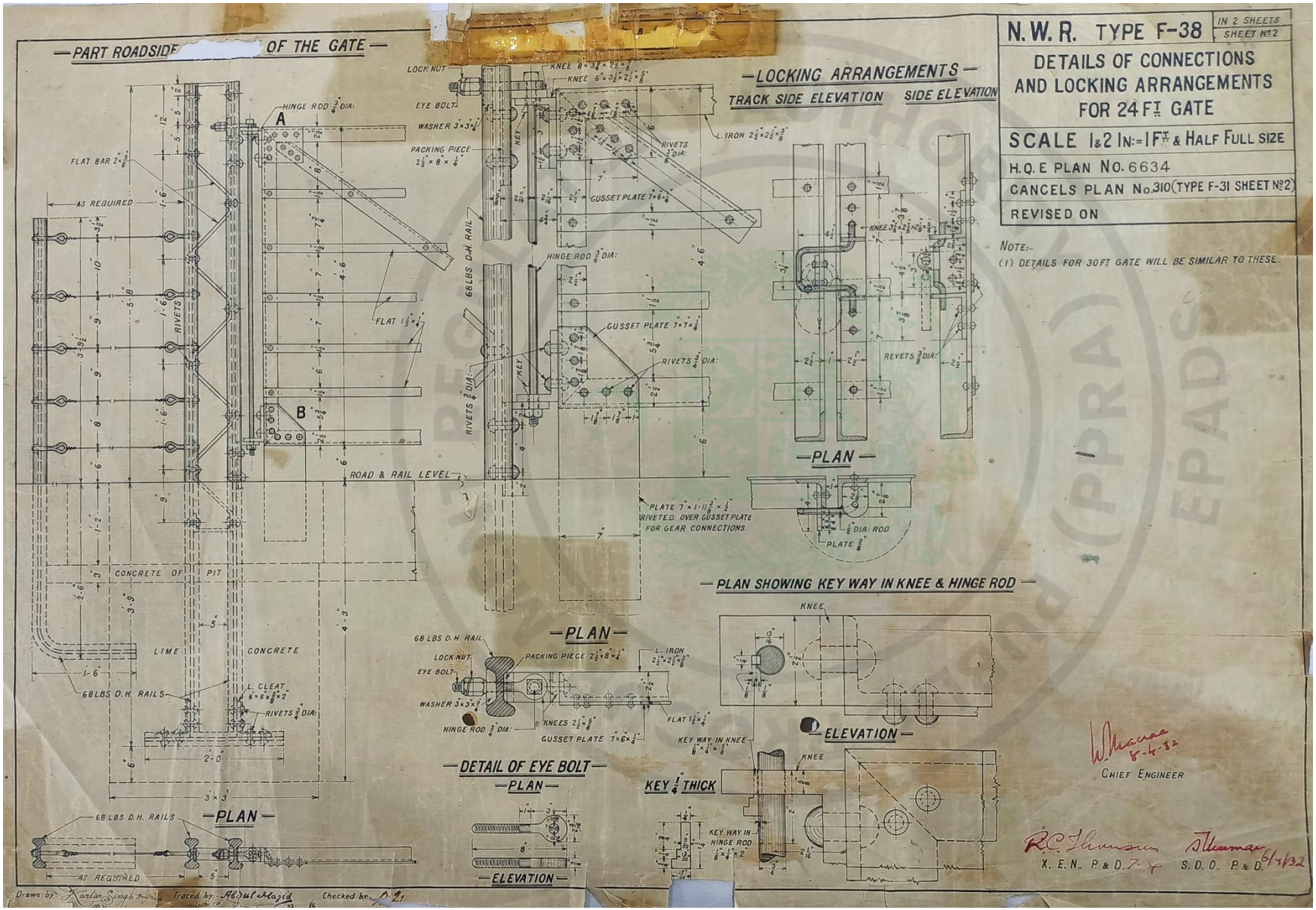
01. RAIL FENCING WILL BE PROVIDED KEEPING IN VIEW PROPOSED WORK.
02. FOUNDATION IS SUITABLE FOR AN ORDINARY SOIL, THIS MAY BE ALTERED BY THE DEN--CONCERED TO SUIT THE ACTUAL SOIL AT SITE.
03. WATER, ELECTRIC AND DRAINAGE ARRANGEMENTS TO BE MADE TO SUIT THE LOCAL CONDITIONS.
04. WATER CLOSET FIXING NOT TO FACE QIBLA SHARIF(WEST).
05. CLEAR COVER TO BARS SLAB= ¾", BEAM 1½".
06. USE R.C.C 1:2:4 WITH COMPRESSIVE CYLINDER STRENGTH 3000 PSI AFTER 28 DAYS.
07. USE DEFORMED BARS (GRADE--40) MILD STEEL YEILD STRENGTH fy= 40,000 PSI.
08. USE #3@10" BARS FOR BINDING TO ALL TOP STEEL.
09. FOR SOLAR FRAME INSTALLATION/FABRICATION REFER TO VENDER DRAWINGS.
10. REQUIREMENTS OF SOLAR PLATES AND DIRECTION OF SOLAR PLATES AS PER SITE REQUIREMENT.

REGULATORY AUTHORITY PUBLIC PROCUREMENT (PPRA)

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PAKISTAN RAILWAYS

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

FINANCIAL PROPOSAL / BOQ

(To be submitted separately)

BIDDING DOCUMENTS

VOLUME-3

- PREAMBLE FOR BILL OF QUANTITIES
- FORM OF BID
- SUMMARY OF FINANCIAL PROPOSAL
- PRICED BOQ FOR TRACK WORKS
- PRICED BOQ FOR OVERHAULING WORKS FOR LEVEL CROSSINGS

November – 2026

Chief Controller of Purchase
P.R Headquarters Office, Empress Road, Lahore
Phone: 042----------

PAKISTAN RAILWAYS

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

PREAMBLE TO BILL OF QUANTITIES

1. The word "tender" is synonymous with the word "bid
2. The Bill of Quantities (BOQ) shall be read in conjunction with the Conditions of Contract, Specifications and Drawings
3. The BOQ is classified under two sub heads i.e., Schedule Items and Non-Schedule Items (Through Rates). The Schedule Items pertains to Pakistan Railways Composite Schedule of Rates (P.R. CSR – 2016), Vol-III, Part-II, whereas non-Schedule items on market basis.
4. The quantities given in the Bill of Quantities are estimated & provisional and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
5. The BOQ shall be priced on item rates for Non-Schedule Items (Through Rates), whereas, percentage (%age) above or below on P.R. CSR-2016 for Schedule Items.
6. The whole cost of complying with the provisions of the Contract and Security Arrangements shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
7. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
8. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
9. General directions, conditions and limitations of works, location and places of works, applicable methods, means to be adopted, type and quality of materials, use of tools, plant and machinery are neither necessarily repeated nor summarised in the Bill of Quantities. However, any cost incidental to these shall deemed to be included in the item rates entered by the Contractor and thereto in the total bid price.
10. No claims for extra payment will be admissible on account of anticipated profit or variation in overhead expenditure for the works not actually performed nor shall any adjustment in the unit rate set forth and entered in the priced BOQ be made because of any increase or decrease in the quantities indicated therein during the entire period of execution.

FORM OF BID

Bid Reference No.W-4019/LHR/2026-27/Confdl _____

(Name of Contract/Works)

To:

_____
_____
_____

Gentleman,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract. Specifications, Drawings and Bill of Quantities and Addenda Nos. _____for the execution of the above-named Works, we, the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the Conditions of Contract. Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.

2. We understand that all the Appendices attached hereto form part of this Bid.

3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of Rupees _____ (Rs. _____) drawn in your favour or made payable to you and valid for a period of _____days beginning from the date Bids are opened.

4. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to Bid.

5. We agree to abide by this Bid for the period of _____ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. 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.

7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.

8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this _____day of_____20_____

Signature: _____

in the capacity of _____duly authorized to sign Bids for and on behalf of

_____

(Name of Bidder in Block Capitals)

(Seal)

Address:_____

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_____
_____

Witness:

Signature: _____
Name: _____

Address. _____
_____
Occupation_____

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Appendix-A

SUMMARY OF FINANCIAL PROPOSAL

120 Nos. Level Crossings

Description	Amount (Pak Rs)	
	In Figures	In Words
Total cost of Civil Works (Detail at Annexure-1 & 1-A)		
Total cost of Track Works (Detail at Annexure-2 & 2-A)		
Total cost of Signal & Telecom Works (Detail at Annexure-3 & 3-A)		
Total cost of Electric Works (Detail at Annexure-4)		
Grand Total		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PRICED BOQ FOR CIVIL WORKS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BILL OF QUANTITIES

FOR

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

S. No.	Description	Qty	Unit	Offered Unit Rate		
				In figure	In words	Total Cost (In Rs)
	SCHEDULE ITEMS					
	A) Civil works (Road, Duty Hut, Gate Leaves, Drain & Fencing etc).					
1	Percentage above / below on Pakistan Railways Composite Schedule of Rates -2016 (Lahore Division) **BOQ attached as Annexure-1-A**	**Rs. 370,084,144** At par cost	%age above / below			
	NON-SCHEDULE ITEMS					
	B) Through Rates					
1	Earth Work in ordinary soil for embankments lead up to 100 ft. including ploughing & mixing with blade, grade, or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects	1,176,000	Cft			
	Total (A+B)					

BOQ of 120 Nos of Level Crossings					
S No.	**Description**	**Quantity**	**Rate**		
			At	**Per**	**Amount**
1	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work, except crushed stone aggregate, for which supply within three miles is included in the rate. (b) Crushed stone aggregate as per specifications(17.1.2-b)	288000	41.4	Cft	11923200
2	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone, screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all materials to site of work except crushed stone aggregate, for which supply within three miles is included in the rate. (17.2.1)	288000	47.6	Cft	13708800
3	Providing and laying plant premix bituminous carpet mixed in batching plant and laid with paver premix including compaction, finishing to required camber, grade and density (including seal coat) complete in all respect:- (a) 4.0% Bitumen 3" thick (17.3.5)	576000	145.5	Sft	83808000
4	Providing and laying bituminous priming coat, using 10 lbs, kerosene oil and 10 lbs bitumen (binder) per 100sft. (17.3.1)	576000	11.2	Sft	6451200
5	Providing and laying road edging of 3" wide and 9" deep brick on edge, complete in all respect:- (17.5.1)	24000	27	Rft	648000
6	Providing 4-1/2" thick dry brick on edge paving, sand grouted, including preparation of bed by watering, ramming and bringing the same to	108000	68.5	Sft	7398000

	proper camber by 1/2" thick mudplaster,complete in all respects (9.1.3)				
7	Carriage of 100 cft (2.83 m3) of all materials like stone aggregate, spawl, kankar, brick bats, lime (unslaked), surkhi, sand etc. or 200 cft (5.66 m3) of timber, by truck or by any other means owned by the contractor. Up to 158 mile 2.1.1(h.i.j.k)	576000	7235.2	% Cft	41674752
8	Carriage of 100 cft (2.83 m3) of all materials like stone aggregate, spawl, kankar, brick bats, lime (unslaked), surkhi, sand etc. or 200 cft (5.66 m3) of timber, by truck or by any other means owned by the contractor. (b) In ordinary soil. chapter # 4 (4.3.1-b)	329160	799	%Cft	2629988
9	Providing and laying cement concrete with brick ballast 1-1/2" to 2" gauge in foundation and plinth:- (b) Ratio 1:4:8 chapter # 5 (5.2.2-b)	75676	141	Cft	10670380
10	Providing cement concrete plain using coarse sand and screened graded & washed aggregate of approved quality including placing compacting, finishing, curing, complete as per specifications without shuttering on ground floor of buliding and for structrues up to 20ft height. (a) Nominal mix 1:2:4 chapter # 5 (5.4.1-a)	84000	235	Cft	19740000
11	Fabrication of small steel work, such as gusset plates, knees, bends, stirrups, straps, rings, etc, including cutting, drilling, rivetting, handling, assembling and fixing but excluding erection in position. chapter # 13 (13.1.1)	24000	185	Kg	4440000
12	Fabrication of heavy steel works, with angle, tees, flat iron, round iron and sheet iron for making trusses, girders, tanks, gate leaves, special type iron grills, etc. including cutting, drilling, rivetting/welding, handling, assembling and fixing but excluding erection in position. chapter # 13 (13.2.1)	288000	120	Kg	34560000
13	Erecting rolled steel beams or rails, erection for posts, gate leaves, special type iron grills, etc. (other than in roofs).chapter # 13 (13.4.5)	2820000	3.7	Kg	10434000
14	Providing vertical wooden/steel shuttering for plain cement concrete works, including its erection and removal	84000	44.4	Sft	3729600

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	complete. chapter # 5 (5.5.1)				
15	Preparing surface and painting guard bars, gates of iron bars, gratings, railing, boiler tube, tie bar and wooden fencing (including standards, braces, etc.) and in similar open work; Ch.12.3.4(a,b) 2 coatings	114000	18.75	Sft	2137500
16	Providing & laying reinforced cement concrete (including prestressed concrete), using coarse sand and crushed stone of approved quality /source, including mixing, transporting, placing, compacting, finishing and curing etc. complete in all respect as per specification but excluding the cost of steel reinforcement, its fabrication and placing in position etc. (a) Reinforced cement concrete in roof slabs, beams, columns, lintels, girders & other structural members cast in-situ or pre-stressed members cast in-situ complete in all respect as per specifications, including the cost of form work, moulds and shuttering complete in all respects, on ground floor of the buliding and for structures upto 20 ft height (iii) Nominal mix1:2:4 chapter # 5 (5.7.1-(iii))	85800	360	cft	30888000
17	Providing and laying mild steel reinforcement including the cost of straightening, cutting, bending, binding, wastage, and overlaps as are not shown in the drawing, placing in position on cement concrete 1:2:4 spacers or MS chairs, tying them with binding wire, complete in all respects as per drawing and in accordance with the specifications. (b) Deformed bars (Grade 60) fy= 60,000 Psi/ 412 N/mm2 (Mpa) chapter # 5 (5.6.1-b)	288600	118	kg	34054800
18	Cement sand plaster 1:4 upto 20 ft (6 m) height (b) 1/2" thick (12 mm):- chapter # 10 (10.3.3-b)	132840	22.8	Sft	3028752
19	Providing ,laying and jointing first class pacca brick work other than in buildings above foundations and plingth upto 10 ft (3 m) height including scaffolding, raking of joints and curing as per drawings and specifications, complete in all respects in (d) Cement sand mortar 1:6:- chapter # 6 (6.4.1-d)	20640	207	Cft	4272480

20	Cutting rails or rolled steel beams of size upto 6" with jim. chapter # 13 (13.11.2)	37080	136	Cut	5042880
21	Making bolts and nuts of steel rods.13.1.2	12000	201	kg	2412000
22	Drilling holes, in plates upto 1/2" thick per inch dia or part thereof. Chapter 13.11.4	18000	51.4	kg	925200
23	Providing, laying and jointing pacca brick work in foundation and plinth in buildings or other than buildings using first class new bricks, raking of joints and curing as per drawings and specifications, complete in all respects in (d) Cement sand mortar 1:6:- chapter # 6 (6.1.1-d)	24000	216	Cft	5184000
24	Providing and laying damp proof course of cement concrete 1:2:4 nominal mix (using cement, sand and shingle/crushed stone), including bitumen coating:- With one coat of bitumen 10/20 grade @ 19 lbs per 100 sft and polythene sheet 500 gauge. (i) 1-1/2" (40 mm) thick chapter # 5 (5.3.1(a)-i)	7200	62.8	sft	452160
25	Providing, laying and jointing first class pacca brick work in ground floor for 9" (225 mm) to 13-1/2" (337 mm) thick walls including scaffolding, raking of joints and curing as per drawings and specifications complete in all respects in (d) Cement sand mortar 1:6:- chapter # 6 (6.1.3-d)	54000	222	cft	11988000
26	Providing and fixing panelled door of M.S. sheet, with forged door leaves of M.s. sheet 22 S.W.G. fitted in hollow frame chowkat 3"x4-1/2" made of M.S. sheet 18 S.W.G. filled with plain cement concrete 1:3:6 etc. complete, with all fittings and hammer painting, including carriage to site and fixing in position. 13.5.8	2880	417	Sft	1200960
27	Providing and fixing steel windows with openable glazed panells, using beam section for frame 1-1/2" x 1" x 5/8" x 1/8", Z-section for leaves 3/4" x 1"x 3/4" x 1/8", T-section sashes 1" x 1" x 1/8", glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings holdfast, duly painted, complete in all respects, including all cost of material and labour, etc., as per approved design and as directed by the engineer-incharge (iii) Glass Pane 5 mm thick.:- 13.5.5(a) iii	1828	457	sft	835396

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28	Providing & laying topping of cement concrete 1:2:4 flooring including surface finishing and dividing into pannels as per specifications and complete in all respects (b) 1-1/2" thick:- (9.3.1-b)	32400	45.9	sft	1487160
29	Providing and laying single layer of tiles 9" x 4-1/2" x 1-1/2", grouted with cement sand morter 1:3, laid over 1" mud plaster, over 4" thick earth, over 34 lbs per 100 sft bitumen coating blinded with sand at 1 cft/100 sft laid on top of RCC/Precast RCC roof slab, ,excluding polythene sheet as per specification and complete in all respects. (8.1.3)	24000	78.6	cft	1886400
30	Cement sand pointing struck joints on walls, upto 20 ft (6 m) height (b) Ratio 1:3 (Cement & sand):-chapter # 10 (10.4.3-b)	90000	22.1	Sft	1989000
31	Cement sand pointing flush, upto 20 ft (6 m) height (b) Ratio 1:3 (Cement & sand):- (10.4.1-b)	66000	19.7	Sft	1300200
32	White washing new surface 3 coats chapter # 10 (10.5.3-iii)	90000	3.47	Sft	312300
33	Providing and fixing first class deodar wood wrought joinery work in wire gauze doors and windows with 22 SWG G.I. wire gauze, 12x12 meshes per square inch including iron fittings, wooden strips etc. complete in all respects. G.I. Wire gauze 22 SWG, 12x12 meshes per square inches, fixed to chowkat with 3/4" thick deodar wood strip and screws. (11.4.1-c)	2400	169	cft	405600
34	Providing ,laying and jointing first class pacca brick work other than in buildings above foundations and plintth up to 10 ft (3 m) height including scaffolding, raking of joints and curing as per drawings and specifications, complete in all respects, in:- (d) Cement sand mortar 1:6	29664	207	cft	6140448
35	Providing cement concrete plain using coarse sand and screened graded & washed aggregate of approved quality including placing compacting, finishing, curing, and complete as per specifications without shuttering on ground floor of building and for structures up to 20ft height. (c) Nominal Mix (1:4:8)	15196	153	cft	2324988
Total					**370084144**

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PRICED BOQ OF TRACK WORKS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BOQ FOR TRACK WORKS

120 Nos. Level Crossings

S. No.	Description	Qty	Unit	Offered Unit Rate		Total Cost (In Rs)
				In figure	In words	
	NON-SCHEDULE ITEMS					
	A) Through Rates					
1	Check rail 100 R 36'-0" (4 Nos)	526,700	Cm			
2	Bolts & Nuts 12"/13"x1"	4320	Nos			
3	Square washer	17280	Nos			
4	C. I Distance block universal.	8,640	Nos			
5	Wooden sleeper chir 9'x10"x6"	3000	Each			
6	W.I check Chair for D/Check rail.	4,320	Each			
7	W.I Dog spikes B. G.	41,280	Each			
8	W.I Bearing Plate	1680	Each			
9	Supplying and laying of 2" nominal size mechanically crushed stone ballast from approved source (Nishtarabad Quarry) by road vehicle, dumper truck or any other means according to revised railway specifications including all charges, such as royalty, lead. lift, handling, re-handling, screening, and other incidental charges and at thirty (30) Nos level crossings.	120,000	Cft			
	Total (A)					

CCP

Pakistan Railways, Lahore

Signature of the bidder_____

(With official seal)

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Rates of P-Way Items

S. No.	Description	Qty	Unit	P.R Rate
1	Check rail 100 RE (SS)	1	Cm	140
2	Bolts & Nuts 12”/13"x1"	1	Nos	871
3	Square washer	1	Nos	160
4	C. I Distance block universal.	1	Nos	1230
5	Wooden sleeper chir 9'x10"x6"	1	Each	33500
6	W.I check Chair for D/Check rail.	1	Each	8990
7	W.I Dog spikes B. G.	1	Each	234
8	W.I Bearing Plate	1	Each	6892

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PRICED BOQ OF SIGNALING & TELECOMMUNICATION WORKS

BOQ FOR SIGNAL & TELECOMMUNICATION WORKS

120 Nos. Level Crossings

S. No.	Description	Qty	Unit	Offered Unit Rate		Total Cost (In Rs)
				In figure	In words	
	NON-SCHEDULE ITEMS					
	A) Through Rates					
1	Starter Single Arm IRS type complete with fitting	240	528713			
2	Frame 3 Lever build up type complete	120	484874			
3	Lock Gate Post double with key No. 69R+70R complete	240	64162			
4	Lock Gate Ground 70R Double W/O key	120	96892			
5	Stakes ordinary complete 1-wire	10800	6204			
6	Crank adjusting single complete IRS type	120	34330			
7	Crank vertical 12×12 IRS type complete	120	26960			
8	Wheel vertical 9" dia single	240	8186			
9	Wheel Side 9" dia Single complete	240	9070			
10	Screw wire adjusting double	240	9075			
11	Lamp case IRS type complete with fitting w/o burner	240	48320			
12	Thimble large	1200	636			
13	Base CIR for rod roller	2400	1859			
14	Shackle single 1/2" pin	1200	3327			
15	Shackle split	1200	748			
16	Foundation "A" type drilled IRS type	360	20916			

17	Forkend Adjusting 1.1/4" Rod with 1" pin Complete	120	12436			
18	Forkend 1.1/4" Rod with 1" pin for crank complete.	480	7130			
19	Forkend crescent 1.1/4" Rod with 1" pin	120	8063			
20	Bolt Holding Down 4'×1"	960	5449			
21	Bolt & Nuts Steel 30" × 3/4" BSW Threads	480	2551			
22	wheel 12" increase stroke complete	240	12258			
23	M.S plate 4'×4'×1/4"	120	20000			
24	M.S plate 1'×1'×1/4"	240	1500			
25	Supply of Bolt & Nuts 3.1/2" × 1/2"	1800	500			
26	Supply of Bolt & Nuts 3.1/2" × 5/8"	1800	500			
27	Supply of Bolt & Nuts 3.1/2" × 3/4"	1800	500			
28	Supply of Wire 7 stand 17 SWG galvanized	72000	750			
29	Supply of G.I Pipe IIL(M) 2" dia with socket at one end	4320	2300			
30	Supply of Signal cable Armoured underground 4×1×1.5 mm	398756	610			
31	Supply of Signal cable Armoured underground 8×1×1.5 mm as per CSE specification No.2-Cable (R-3) (As per railway specification).	28000	1200			
32	Supply of Signal cable Armoured underground 18×1×1.5 mm as per CSE specification No.2-Cable (R-3) (As per railway specification).	18400	2800			
33	Supply of Signal cable Armoured underground 21×1×1.5 mm as per CSE specification No.2-Cable (R-3) (As per railway specification).	3200	3200			
34	Cost of providing & installation cable junction box 2'×1.5×1.5' sq feet complete with legs 4 feet long	480	6500			

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	(14 swg sheet)					
35	Digging for cable trench 01 meter deep 01 feet wide & laying of signal cable in it (HDPE) pipe & back filling work upto earth level & compacted to previous condition. The G.I pipe should be used (instead of HDPE) while passing the cable under the track or road or along a Bridge.	396000	620			
36	Providing & Fixing of cable route indicator at a distance of 50 meter apart (concrete)as per railways standard.	7800	990			
37	Supply of MS Chain Straight Link 1/4" thick Galvanized, 12' long	480	17180			
38	Supply of Lenses Red Roundle 8.3/8" dia	240	6000			
39	Supply of Lenses Green Roundle 9.5/8" dia	240	6500			
40	Supply of Magneto telephone with dry cells (02 Nos, 1.5 V,100 Ah for each) and Installation on wooden stand as per railway standard.	240	33000			
41	Supply of Signal Lamp LED type comlete, solar pannel 5-watts 12 volt with stand, dry battery 12V/5Ah (LIDDO or equivalent) with fitting for each signal.	240	20000			
42	Labour charges of the construction of foundation of three lever frames, signal post, fitting of 03 lever frames, junction boxes, ground lock, gate post locks, Horizantal & Vertical wheels, stakes, wires etc and completion of said work in all aspects.	120	175000			
43	Paint and painting of signal post, lever frame and junction boxes etc. paint (enamel "MASTER" or equivalent as per railway standard (3 statin) for 30 level crossings	4	65000			
	Total (A)					

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Pakistan Railways, Lahore

Signature of the bidder_____

(With official seal)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Rates of Signal Items

SR.NO	DESCRIPTION	QTY	RATE		COST		
			AT	PER	CASH	STORE	TOTAL
1	Starter Single Arm IRS type complete with fitting	240	528713	EA	0	126891120	126891120
2	Frame 3 Lever build up type complete	120	484874	EA	0	58184880	58184880
3	Lock Gate Post double with key No. 69R+70R complete	240	64162	EA	0	15398880	15398880
4	Lock Gate Ground 70R Double W/O key	120	96892	EA	0	11627040	11627040
5	Stakes ordinary complete 1-wire	10800	6204	EA	0	67003200	67003200
6	Crank adjusting single complete IRS type	120	34330	EA		4119600	4119600
7	Crank vertical 12×12 IRS type complete	120	26960	EA	0	3235200	3235200
8	Wheel vertical 9" dia single	240	8186	EA	0	1964640	1964640
9	Wheel Side 9" dia Single complete	240	9070	EA	0	2176800	2176800
10	Screw wire adjusting double	240	9075	EA	0	2178000	2178000
11	Lamp case IRS type complete with fitting w/o burner	240	48320	EA	0	11596800	11596800
12	Thimble large	1200	636	EA	0	763200	763200
13	Base CIR for rod roller	2400	1859	EA	0	4461600	4461600
14	Shackle single 1/2" pin	1200	3327	EA	0	3992400	3992400
15	Shackle split	1200	748	EA	0	897600	897600
16	Foundation "A" type drilled IRS type	360	20916	EA	0	7529760	7529760
17	Forkend Adjusting 1.1/4" Rod with 1" pin Complete	120	12436	EA	0	1492320	1492320
18	Forkend 1.1/4" Rod with 1" pin for crank complete.	480	7130	EA	0	3422400	3422400
19	Forkend crescent 1.1/4" Rod with 1" pin	120	8063	EA	0	967560	967560

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20	Bolt Holding Down 4'×1"	960	5449	EA	0	5231040	5231040
21	Bolt & Nuts Steel 30" × 3/4" BSW Threads	480	2551	EA	0	1224480	1224480
22	wheel 12" increase stroke complete	240	12258	EA	0	2941920	2941920

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PRICED BOQ OF ELECTRIC WORKS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BOQ FOR ELECTRICAL WORKS

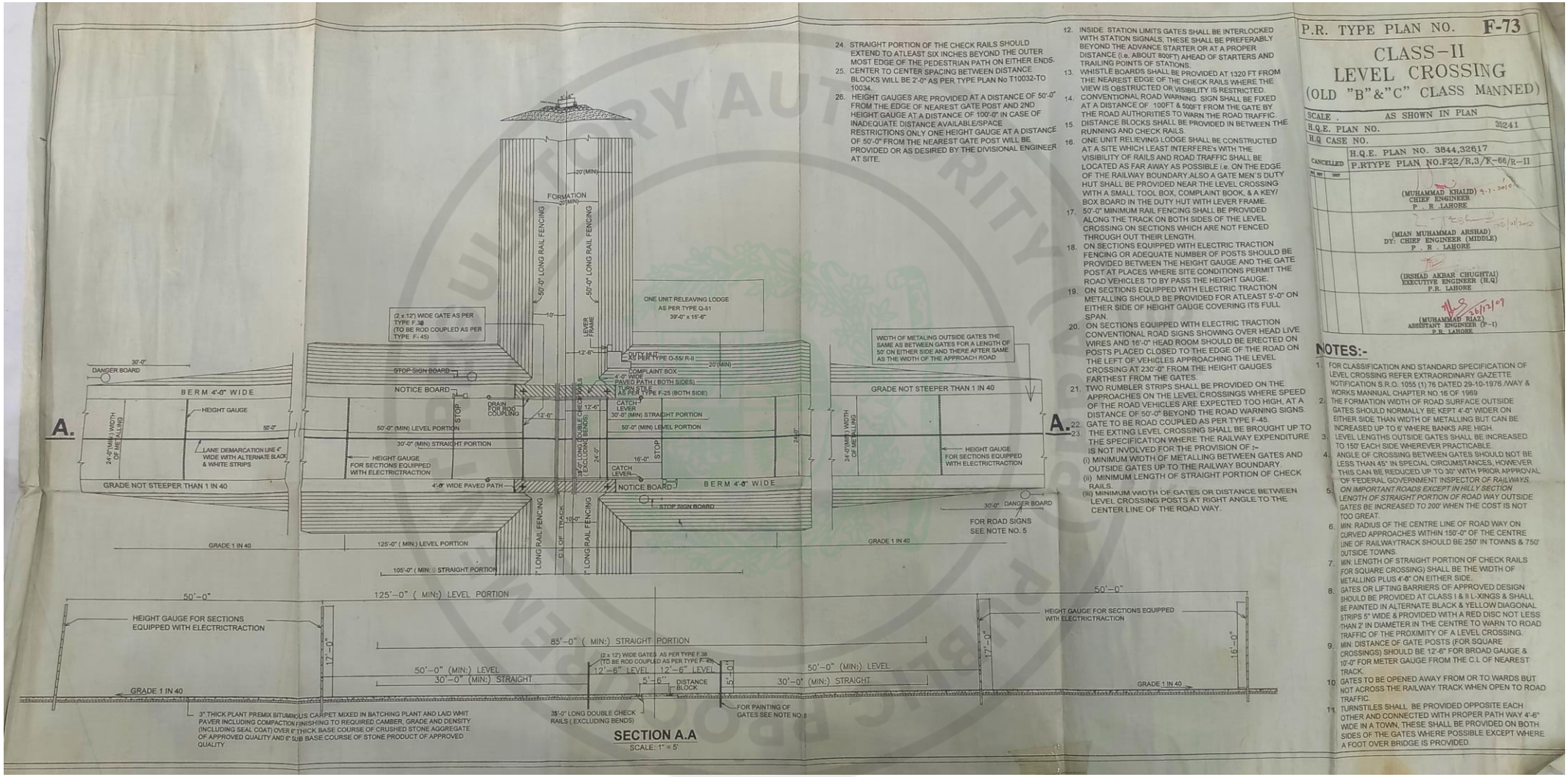
120 Nos. Level Crossings

S. No.	Description	Qty	Unit	Offered Unit Rate		Total Cost (In Rs)
				In figure	In words	
	NON-SCHEDULE ITEMS					
	Through Rates					
1	**Supply, Fixing & Commissioning of 1.5 kW Solar System & Accessories (Complete Package):** Supply, installation, testing, and commissioning of **1.5 kW Solar Power System**, including Tier-1 Monocrystalline N-Type TOPCon PV Solar Panels (~1,170W total), 1.6 kW–2.2 kW Pure Sine Wave Hybrid Solar Inverter (24V DC), and 2 Nos. 12V 150Ah Deep-Cycle Lithium Batteries. Work includes fabrication and fixing of L2/L3 heavy-duty galvanized iron (GI) mounting structure, factory-fitted/powder-coated DB & Protection Panels fitted with AC/DC MCBs, DC Surge Protection Device (SPD), changeover switch, 6mm² DC flexible solar cable, MC4 connectors, chemical/GI earthing grounding, civil anchoring, hardware, labor, testing, and full system commissioning.	120				
2	**Internal & External Electrical Wiring, Conduit & Fixtures Installation:** Complete electrical wiring and fixture installation for **Duty Hut (4'x4'), equipment room (8'x8') & Bath (4'x4')**, including supply and pulling of 3/.029" and 7/.029" 450/750V Grade 99.9% Copper Cables (Pakistan Cables / Fast Cables or approved equal) through 3/4" PVC conduit pipes/ducts with all fittings (bends, junction boxes, saddles). Item includes complete fixing, wiring, and testing for **1 No. Ceiling Fan, 1 No. bracket fan**, **6 Nos. Indoor/Outdoor LED Light Fixtures/Floodlights**, gang switchboards with socket points, and distribution wiring connections as instructions by Site Engineer.	120				
	Total					

CCP
Pakistan Railways, Lahore
Signature of the bidder_____
(With official seal)

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Technical Drawings



SECTION A.A
SCALE: 1" = 5'

24. STRAIGHT PORTION OF THE CHECK RAILS SHOULD EXTEND TO ATLEAST SIX INCHES BEYOND THE OUTER MOST EDGE OF THE PEDESTRIAN PATH ON EITHER ENDS.
25. CENTER TO CENTER SPACING BETWEEN DISTANCE BLOCKS WILL BE 2'-0" AS PER TYPE PLAN No T10032-TO 10034.
26. HEIGHT GAUGES ARE PROVIDED AT A DISTANCE OF 50'-0" FROM THE EDGE OF NEAREST GATE POST AND 2ND HEIGHT GAUGE AT A DISTANCE OF 100'-0" IN CASE OF INADEQUATE DISTANCE AVAILABLE/SPACE RESTRICTIONS ONLY ONE HEIGHT GAUGE AT A DISTANCE OF 50'-0" FROM THE NEAREST GATE POST WILL BE PROVIDED OR AS DESIRED BY THE DIVISIONAL ENGINEER AT SITE.

12. INSIDE STATION LIMITS GATES SHALL BE INTERLOCKED WITH STATION SIGNALS, THESE SHALL BE PREFERABLY BEYOND THE ADVANCE STARTER OR AT A PROPER DISTANCE (i.e. ABOUT 800FT) AHEAD OF STARTERS AND TRAILING POINTS OF STATIONS.
13. WHISTLE BOARDS SHALL BE PROVIDED AT 1320 FT FROM THE NEAREST EDGE OF THE CHECK RAILS WHERE THE VIEW IS OBSTRUCTED OR VISIBILITY IS RESTRICTED.
14. CONVENTIONAL ROAD WARNING SIGN SHALL BE FIXED AT A DISTANCE OF 100FT & 500FT FROM THE GATE BY THE ROAD AUTHORITIES TO WARN THE ROAD TRAFFIC.
15. DISTANCE BLOCKS SHALL BE PROVIDED IN BETWEEN THE RUNNING AND CHECK RAILS.
16. ONE UNIT RELIEVING LODGE SHALL BE CONSTRUCTED AT A SITE WHICH LEAST INTERFERE's WITH THE VISIBILITY OF RAILS AND ROAD TRAFFIC SHALL BE LOCATED AS FAR AWAY AS POSSIBLE i.e. ON THE EDGE OF THE RAILWAY BOUNDARY.ALSO A GATE MEN'S DUTY HUT SHALL BE PROVIDED NEAR THE LEVEL CROSSING WITH A SMALL TOOL BOX, COMPLAINT BOOK, & A KEY/ BOX BOARD IN THE DUTY HUT WITH LEVER FRAME.
17. 50'-0" MINIMUM RAIL FENCING SHALL BE PROVIDED ALONG THE TRACK ON BOTH SIDES OF THE LEVEL CROSSING ON SECTIONS WHICH ARE NOT FENCED THROUGH OUT THEIR LENGTH.
18. ON SECTIONS EQUIPPED WITH ELECTRIC TRACTION FENCING OR ADEQUATE NUMBER OF POSTS SHOULD BE PROVIDED BETWEEN THE HEIGHT GAUGE AND THE GATE POST AT PLACES WHERE SITE CONDITIONS PERMIT THE ROAD VEHICLES TO BY PASS THE HEIGHT GAUGE.
19. ON SECTIONS EQUIPPED WITH ELECTRIC TRACTION METALLING SHOULD BE PROVIDED FOR ATLEAST 5'-0" ON EITHER SIDE OF HEIGHT GAUGE COVERING ITS FULL SPAN.
20. ON SECTIONS EQUIPPED WITH ELECTRIC TRACTION CONVENTIONAL ROAD SIGNS SHOWING OVER HEAD LIVE WIRES AND 16'-0" HEAD ROOM SHOULD BE ERECTED ON POSTS PLACED CLOSED TO THE EDGE OF THE ROAD ON THE LEFT OF VEHICLES APPROACHING THE LEVEL CROSSING AT 230'-0" FROM THE HEIGHT GAUGES FARTHEST FROM THE GATES.
21. TWO RUMBLER STRIPS SHALL BE PROVIDED ON THE APPROACHES ON THE LEVEL CROSSINGS WHERE SPEED OF THE ROAD VEHICLES ARE EXPECTED TOO HIGH, AT A DISTANCE OF 50'-0" BEYOND THE ROAD WARNING SIGNS.
22. GATE TO BE ROAD COUPLED AS PER TYPE F-45.
23. THE EXTING LEVEL CROSSING SHALL BE BROUGHT UP TO THE SPECIFICATION WHERE THE RAILWAY EXPENDITURE IS NOT INVOLVED FOR THE PROVISION OF :-
(i) MINIMUM WIDTH OF METALLING BETWEEN GATES AND OUTSIDE GATES UP TO THE RAILWAY BOUNDARY.
(ii) MINIMUM LENGTH OF STRAIGHT PORTION OF CHECK RAILS.
(iii) MINIMUM WIDTH OF GATES OR DISTANCE BETWEEN LEVEL CROSSING POSTS AT RIGHT ANGLE TO THE CENTER LINE OF THE ROAD WAY.

P.R. TYPE PLAN NO. **F-73**

CLASS–II LEVEL CROSSING
(OLD "B"&"C" CLASS MANNED)

SCALE .	AS SHOWN IN PLAN
H.Q.E. PLAN NO.	35241
H.Q CASE NO.	
CANCELLED	H.Q.E. PLAN NO. 3844,32617
	P.RTYPE PLAN NO.F22/R,3/R-66/R-II

(MUHAMMAD KHALID) 9-1-2010
CHIEF ENGINEER
P . R . LAHORE

(MIAN MUHAMMAD ARSHAD) 30/12/2009
DY: CHIEF ENGINEER (MIDDLE)
P . R . LAHORE

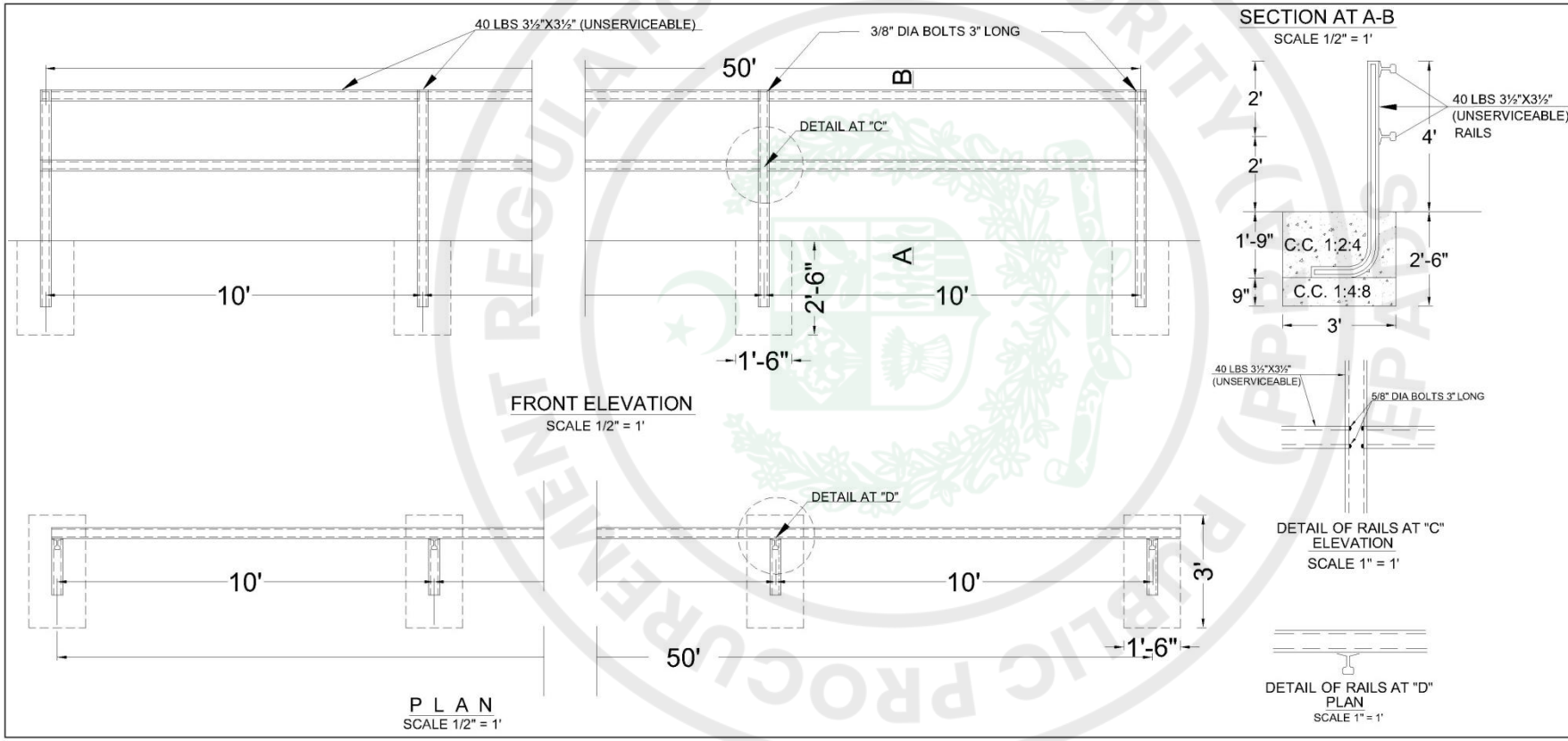
(IRSHAD AKBAR CHUGHTAI)
EXECUTIVE ENGINEER (H.Q)
P.R. LAHORE

(MUHAMMAD RIAZ) 26/12/09
ASSISTANT ENGINEER (P–I)
P.R. LAHORE

NOTES:-

1. FOR CLASSIFICATION AND STANDARD SPECIFICATION OF LEVEL CROSSING REFER EXTRAORDINARY GAZETTE NOTIFICATION S.R.O. 1055 (1) 76 DATED 29-10-1976 /WAY & WORKS MANNUAL CHAPTER NO.16 OF 1969
2. THE FORMATION WIDTH OF ROAD SURFACE OUTSIDE GATES SHOULD NORMALLY BE KEPT 4'-0" WIDER ON EITHER SIDE THAN WIDTH OF METALLING BUT CAN BE INCREASED UP TO 6' WHERE BANKS ARE HIGH.
3. LEVEL LENGTHS OUTSIDE GATES SHALL BE INCREASED TO 150' EACH SIDE WHEREVER PRACTICABLE.
4. ANGLE OF CROSSING BETWEEN GATES SHOULD NOT BE LESS THAN 45° IN SPECIAL CIRCUMSTANCES, HOWEVER, THIS CAN BE REDUCED UP TO 30° WITH PRIOR APPROVAL OF FEDERAL GOVERNMENT INSPECTOR OF RAILWAYS.
5. *ON IMPORTANT ROADS EXCEPT IN HILLY SECTION LENGTH OF STRAIGHT PORTION OF ROAD WAY OUTSIDE GATES BE INCREASED TO 200' WHEN THE COST IS NOT TOO GREAT.*
6. MIN: RADIUS OF THE CENTRE LINE OF ROAD WAY ON CURVED APPROACHES WITHIN 150'-0" OF THE CENTRE LINE OF RAILWAYTRACK SHOULD BE 250' IN TOWNS & 750' OUTSIDE TOWNS.
7. MIN: LENGTH OF STRAIGHT PORTION OF CHECK RAILS FOR SQUARE CROSSING) SHALL BE THE WIDTH OF METALLING PLUS 4'-6" ON EITHER SIDE.
8. GATES OR LIFTING BARRIERS OF APPROVED DESIGN SHOULD BE PROVIDED AT CLASS I & II L-XINGS & SHALL BE PAINTED IN ALTERNATE BLACK & YELLOW DIAGONAL STRIPS 5" WIDE & PROVIDED WITH A RED DISC NOT LESS THAN 2' IN DIAMETER IN THE CENTRE TO WARN TO ROAD TRAFFIC OF THE PROXIMITY OF A LEVEL CROSSING.
9. MIN: DISTANCE OF GATE POSTS (FOR SQUARE CROSSINGS) SHOULD BE 12'-6" FOR BROAD GAUGE & 10'-0" FOR METER GAUGE FROM THE C.L OF NEAREST TRACK.
10. GATES TO BE OPENED AWAY FROM OR TO WARDS BUT NOT ACROSS THE RAILWAY TRACK WHEN OPEN TO ROAD TRAFFIC.
11. TURNSTILES SHALL BE PROVIDED OPPOSITE EACH OTHER AND CONNECTED WITH PROPER PATH WAY 4'-6" WIDE IN A TOWN, THESE SHALL BE PROVIDED ON BOTH SIDES OF THE GATES WHERE POSSIBLE EXCEPT WHERE A FOOT OVER BRIDGE IS PROVIDED.

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P.R. H.Q.E. PLAN NO.	32817
P.R. H.Q.E. TYPE PLAN NO.	F-69

RAIL FENCING
FOR
LEVEL CROSSINGS

SCALE 1/2" & 1" = 1FOOT

P.R. H.Q.E. CASE NO. 480-W/0-VIII (W-2)

CANCELLED	H.Q.E. PLAN NO.
	H.Q.E. TYPE PLAN NO.

NO	REV	INIT	
			-sd-4-2-85 CHIEF ENGINEER P . R . LAHORE
			-sd-2-2-85 DY:CHIEF ENGINEER(NORTH) P . R . LAHORE
			-sd-31-1-85 EXECUTIVE ENGINEER(DESIGN) P . R . LAHORE
			-sd-31-1-85 ASSISTANT ENGINEER(P&D) P . R . LAHORE

NOTE:
40 LBS TO 60LBS UNSERVICEABLE RAILS TO BE USED SUBJECT TO THE AVAILBILITY

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA)

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PUBLIC PROCUREMENT REGULATORY AUTHORITY

NOTES:-

1. EXISTING WORK SHOWN IN BLACK(BLUE ON AMMUNIA PRINT).
2. THE DIVISIONAL ENGINEER SHOULD STAISFY HIM SELF THAT ALL THE MATERIAL USED IN THIS WORK IS FRESH AND AS PER PRESCRIBED IN THE SPECIFICATIONS AS SHOWN IN PLAN.
3. THE CONCRETE COVER SHOULD BE 1½" ON EVERY SIDE.

DIVISIONAL PLAN NO.

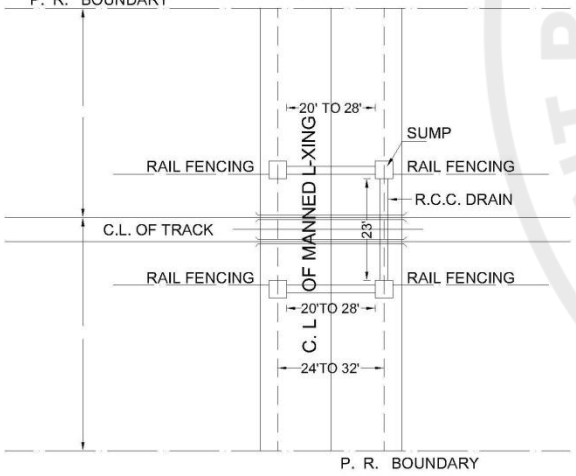
PLAN OF R.C.C. DRAIN FOR ROD COUPLING ARRAMGEMENT F-45 FOR MANNED LEVEL CROSSINGS OVER MULTAN DIVISION

SCALE:- AS SHOWN

DIVISIONAL CASE NO. 18-WA/16/LON/2014

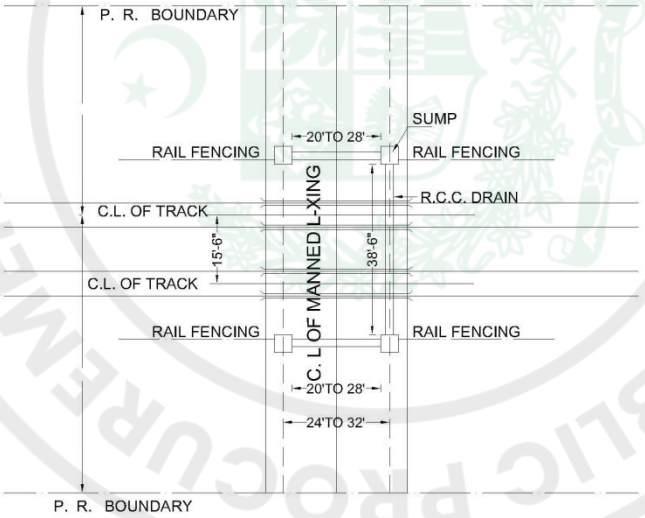
SITE PLAN OF SINGLE TRACK

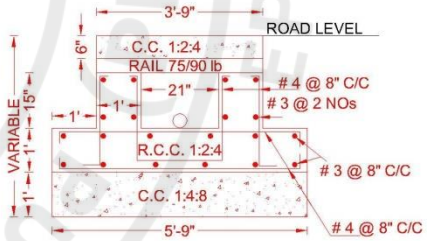
SCALE = 1" = 20'



SITE PLAN OF DOUBLE TRACK

SCALE = 1" = 20'



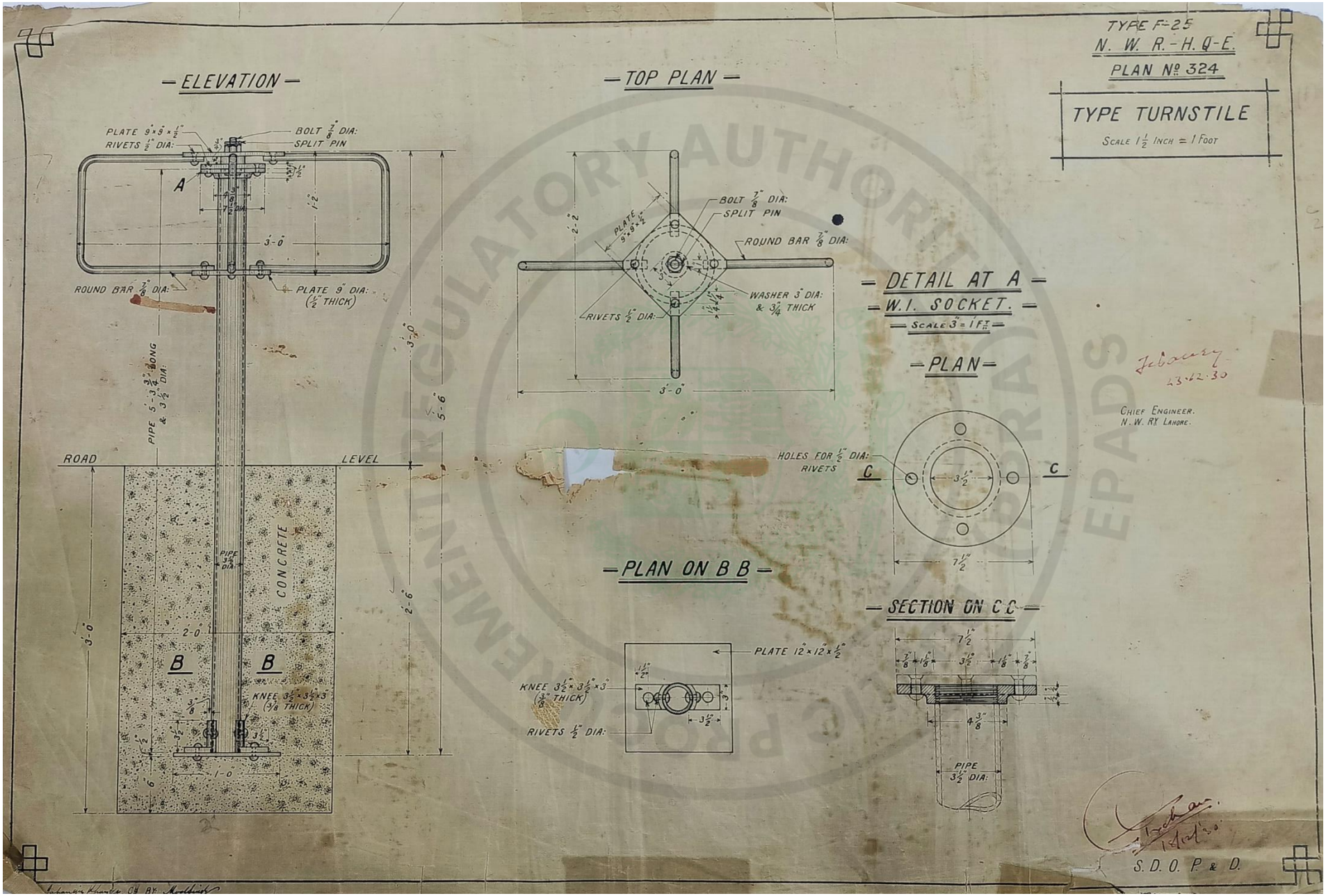


TYPICAL PLAN OF R.C.C. DRAIN

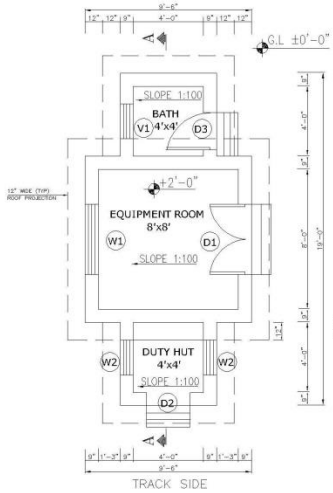
SCALE 1" = 2'

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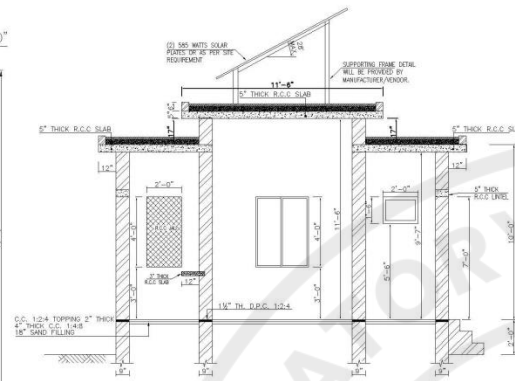
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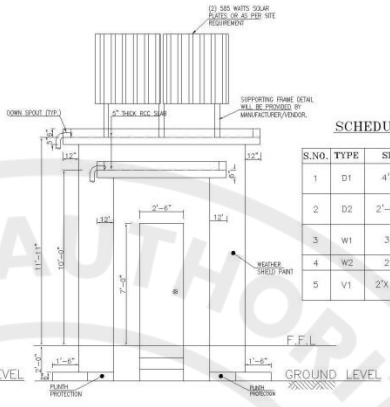
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162
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PLAN



SECTION AT A-A



ELEVATION
(FROM TRACK SIDE)

SCHEDULE OF WINDOWS AND DOORS

S.NO.	TYPE	SIZE	SILL	DESCRIPTION
1	D1	4'X7'	NIL	DOUBLE LEAVES OPENABLE STEEL PANELED DOOR INCLUDING LOCKING ARRANGEMENT
2	D2	2'-6"X7'	NIL	SINGLE LEAVE OPENABLE STEEL PANELED DOOR INCLUDING LOCKING ARRANGEMENT
3	W1	3'X4'	3'-0"	DOUBLE LEAVE OPENABLE STEEL AND GLAZED WITH WIRE GAUZE WINDOW
4	W2	2'X4'	3'-0"	R.C.C JALI
5	V1	2'X1'-6"	5'-6"	SINGLE LEAVE OPENABLE STEEL AND GLAZED WITH WIRE GAUZE VENTILATOR

P.R H.Q.E. TYPE PLAN NO. O-69

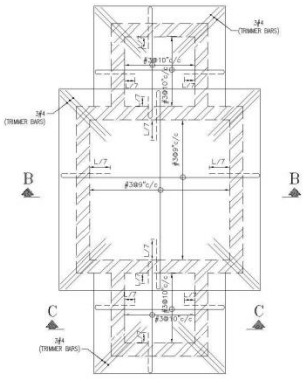
NEW TYPE PLAN OF DUTY HUT, EQUIPMENT AND BATH ROOMS AT MANNED LEVEL CROSSINGS SPECIAL CLASS, CLASS I & II

SCALE = AS SHOWN

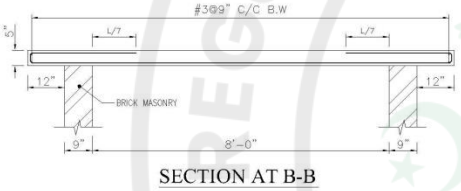
P.R H.O. CASE NO. 60-W/51/KYC/2017(W3)

CANCEL, S | DIVISIONAL PLAN NO.

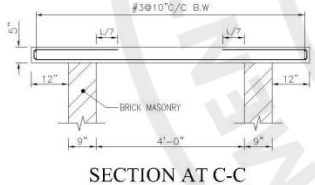
NO.	REV.	INITIALS	H.Q. E. PLAN/TYPE PLAN NO. O-67
			(MUHAMMAD IRFAN-UL-HAQ) CHIEF ENGINEER/O.L P.R. LAHORE
			(MUHAMMAD AHMAD QURESHI) DY.CHIEF ENGINEER /MIDDLE P.R. LAHORE
			(MUDASSIR SHAH) EXECUTIVE ENGINEER/HQ P.R. LAHORE
			(IBHARIM KHAN) ASST. EXECUTIVE ENGINEER /P-1 P.R. LAHORE



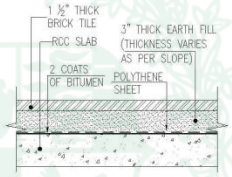
SLAB TOP AND BOTTOM REINF. PLAN



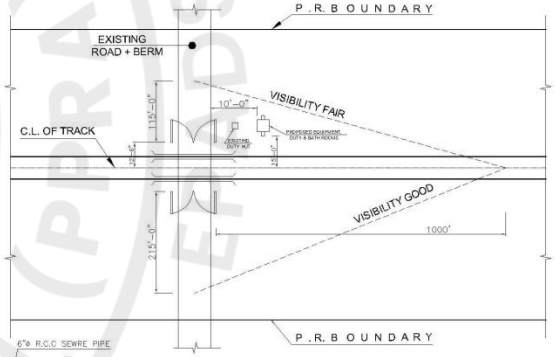
SECTION AT B-B



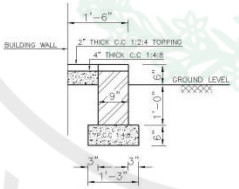
SECTION AT C-C



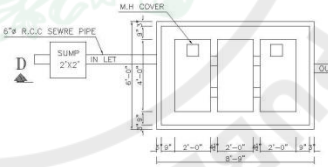
ROOFING DETAIL



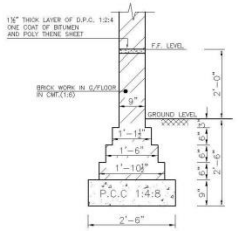
SITE PLAN
N.T.S



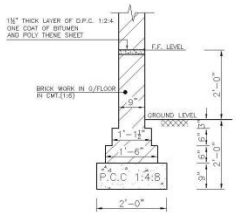
PLINTH PROTECTION
DETAIL



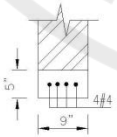
PLAN OF SEPTIC TANK



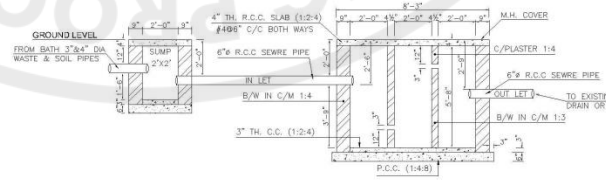
SECTION OF FOUNDATION
(EQUIPMENT ROOM)



SECTION OF FOUNDATION
(DUTY ROOM & BATH)



R.C.C 1:2:4 LINTEL DETAIL
(TYPICAL)



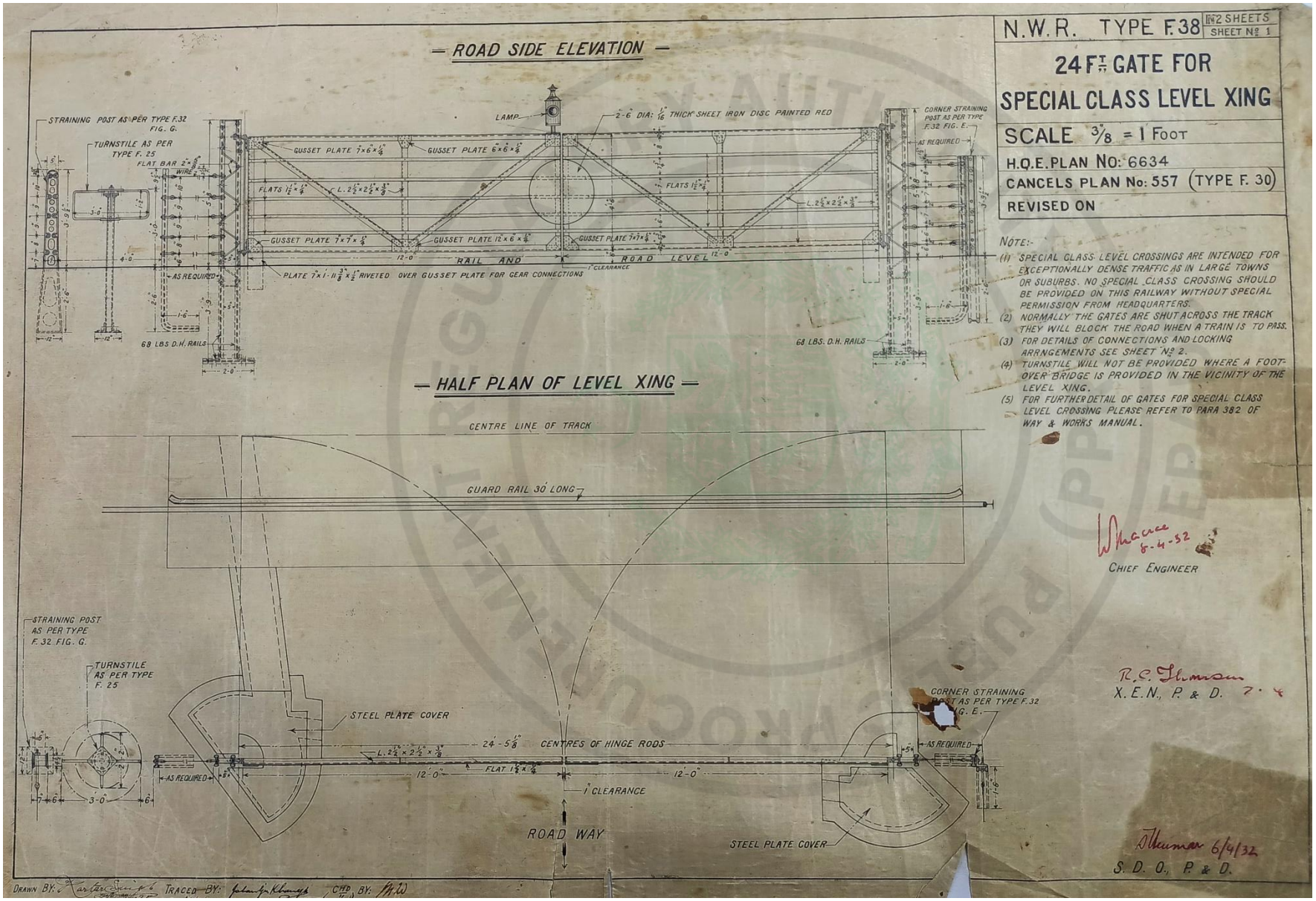
SECTION D-D

NOTES:-

01. RAIL FENCING WILL BE PROVIDED KEEPING IN VIEW PROPOSED WORK.
02. FOUNDATION IS SUITABLE FOR AN ORDINARY SOIL, THIS MAY BE ALTERED BY THE DEN--CONCERED TO SUIT THE ACTUAL SOIL AT SITE.
03. WATER, ELECTRIC AND DRAINAGE ARRANGEMENTS TO BE MADE TO SUIT THE LOCAL CONDITIONS.
04. WATER CLOSET FIXING NOT TO FACE QIBLA SHARIF(WEST).
05. CLEAR COVER TO BARS SLAB= ¾", BEAM 1½".
06. USE R.C.C 1:2:4 WITH COMPRESSIVE CYLINDER STRENGTH 3000 PSI AFTER 28 DAYS.
07. USE DEFORMED BARS (GRADE--40) MILD STEEL YEILD STRENGTH fy= 40,000 PSI.
08. USE #3@10" BARS FOR BINDING TO ALL TOP STEEL.
09. FOR SOLAR FRAME INSTALLATION/FABRICATION REFER TO VENDER DRAWINGS.
10. REQUIREMENTS OF SOLAR PLATES AND DIRECTION OF SOLAR PLATES AS PER SITE REQUIREMENT.

REGULATORY AUTHORITY PUBLIC PROCUREMENT (PPRA)

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N.W.R. TYPE F.38 No 2 SHEETS SHEET No 1

24 Ft. GATE FOR SPECIAL CLASS LEVEL XING

SCALE ⅜" = 1 FOOT

H.Q.E. PLAN No: 6634

CANCELS PLAN No: 557 (TYPE F. 30)

REVISED ON

NOTE:-

(1) SPECIAL CLASS LEVEL CROSSINGS ARE INTENDED FOR EXCEPTIONALLY DENSE TRAFFIC AS IN LARGE TOWNS OR SUBURBS. NO SPECIAL CLASS CROSSING SHOULD BE PROVIDED ON THIS RAILWAY WITHOUT SPECIAL PERMISSION FROM HEADQUARTERS.

(2) NORMALLY THE GATES ARE SHUT ACROSS THE TRACK THEY WILL BLOCK THE ROAD WHEN A TRAIN IS TO PASS.

(3) FOR DETAILS OF CONNECTIONS AND LOCKING ARRNGEMENTS SEE SHEET No 2.

(4) TURNSTILE WILL NOT BE PROVIDED WHERE A FOOT-OVER BRIDGE IS PROVIDED IN THE VICINITY OF THE LEVEL XING.

(5) FOR FURTHER DETAIL OF GATES FOR SPECIAL CLASS LEVEL CROSSING PLEASE REFER TO PARA 382 OF WAY & WORKS MANUAL.

Wharton 8-4-52
CHIEF ENGINEER

R.C. Thomson
X.E.N., P. & D. 7.4

Thomson 6/4/32
S.D.O., P. & D.

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List of 120 Vulnerable Un-manned Level Crossings to be Converted/up-graded into Manned Level Crossings Rawalpindi, Lahore & Multan (Punjab Province).

Multan Division of Pakistan Railways

1	2	3	4	5
Sr. No	**Section**	Un-manned Level Crossing No.	Location with respect to Railways Kilometer	Between Station
1	Shorkot Cantt Shahinabad	21	32/14-15	Rustam Sargana Gilmala
2		24	36/2-3	Gilmala muddoke
3		29	45/1-2	Mudduke-Jhang Saddar
4		32	46/7-8	Mudduke-Jhang Saddar
5		33	48/0-1	Mudduke-Jhang Saddar
6		34	48/0-1	Mudduke-Jhang Saddar
7		35	49/1-2	Mudduke-Jhang Saddar
8		56	77/11-12	Rivaz west block house chund
9		61	85/0-1	Chund shah Jewna
10		64	88/1-2	Chund shah Jewna
11		75	98/7-8	Shah Jawana Shah Nikdur
12		76	98/8-9	Shah Jawana Shah Nikdur
13	Lodhran-Pakpattan	30/A	27/09-10	JMH-KQP
14		36	34/03-04	KQP-MSX
15		62	66/02-03	MSX-NSH
16		83	105/09-10	VHR-MCW
17		90	118/01-02	MCW-MBWL
18		92	122/07-08	MCW-MBWL
19		94	128/02-03	MCW-MBWL
20		98/A	133/13-14	MBWL-GOO
21		100	142/13-14	MBWL-GOO
22		102/A	148/06-07	GOO-ARF
23		117	176/14-15	ARF-MRCH
Lahore Division of Pakistan Railways				
24	Shorkot Cantt - Faisalabad-Sanglahill	30	67/3-4	Shorkot -Chutiana
25		32	72/4-5	Shorkot -Chutiana
26		33	72/11-12	Shorkot -Chutiana
27		36	78/1-2	Shorkot -Chutiana
28		38	81/3-4	Chutiana -Dabanwala
29		41	87/1-2	Dabbanwala-Toba Tek Singh
30		47	100/1-2	Toba Tek Singh -Janiwala
31		48	102/9-10	Toba Tek Singh -Janiwala
32		51	107/9-10	Janiwala -Gojra
33		52	109/2-3	Janiwala -Gojra
34		59	124/9-10	Gojra -Pakka anna
35		62	128/10-11	Gojra -Pakka anna
36		64	133/3-4	Gojra-Paka anna
37		67	138/1-2	Pakka anna -Sar Shamir Road
38		69	142/10-11	Pakka anna -Sar Shamir Road

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39		73	147/1-2	Sar Shamir Road -Resalewala
40		74	149/2-3	Sar Shamir Road -Resalewala
41		108	200/8-9	Sahianwala -Dar -ul-Ihsan
42		115	210/2-3	Dar-ul-Ihsan Sangla Hill
43		116	212/11-12	Dar-ul-Ihsan -Sangla Hill
44	SDR-QSP-SLL	5	7/11-12	Shahdra Bagh -Missan Kalar
45		18	21/4-5	QilaSattarShah-Chicoki Mallian
46		35	40/1-2	QilaSheikhupura-Farroqabad
47		44	44/10-11	Qila Sheikhupura -Farroqabad
48		54	54/7-8	Farroqabad-Bahalike
49		58	59/7-8	Farroqabad-Bahalike
50		67	68/8-9	Bahalike-Safdarabad
51		74	75/4-5	Safdarabad-Moman
52		80	79/12-13	Safdarabad-Moman
53		86	85/6-7	Moman -Sangla Hill
54	Shorkot - Nankana Sahib - Qila Sheikhupura	118	215/2-3	SLL-MBN
55		128	227/6-7	MBN-SKE
56		131	231/10-11	MBN-SKE
57		141	242/5-6	SKE-KKE
58		157	262/9-10	KKE-HFD
59		160	266/14-15	HFD-ACHH
60		164	270/9-10	HFD-ACHH
61		180	293/3-4	ACHH-JCT
62		192	309/1-2	JCT-MNW
63		198	319/3-4	MNW-WZD
64	Sangla Hill - Wzairabad	1	1/15 to 2/1	SKO-JWT
65		18	15/4-5	SKO-JWT
66		32	31/3-4.	SKO-JWT
67		67	70/8-9.	SKO-JWT
68		70	73/13-14.	SKO-JWT
69		77	83/1-2	SKO-JWT
70		96	102/9-10.	SKO-JWT
71		121	127/4-5	JWT-QSP
72		133-A	143/8-9.	JWT-QSP
73		140	152/14-15	JWT-QSP
74		149	157/11-12	JWT-QSP
75		152	161/5-6	JWT-QSP
76		165	178/12-13	JWT-QSP
77		169	185/8-9	JWT-QSP
78		185	206/5-6	JWT-QSP
79		197	215/7-8	JWT-QSP
80	RND-KUS-PPX	142-A	1071/15-16	LHR-SWAL
81		149	211/8-9	PPX-KUS
82		154	217/5-6	PPX-KUS
83		166	229/7-8	PPX-KUS
84		171	235/7-8	PPX-KUS
85		176	239/14-15	PPX-KUS
86		180	243/3-4	PPX-KUS
87		182	245/16-246/0	PPX-KUS
88		187	251/8-9	PPX-KUS

89		192	261/15-262/1	PPX-KUS
90		195	264/4-5	PPX-KUS
91		196	266/3-4	PPX-KUS
92		198	268/2-3	PPX-KUS
93		206	280/9-10	PPX-KUS
94		208	282/14-15	PPX-KUS
95		211	286/10-11	PPX-KUS
96		215	289/8-9	PPX-KUS
97		216-A	290/8-9	PPX-KUS
98		219	293/15-16	PPX-KUS
99		228	305/10-11	PPX-KUS
100		229	306/7-8	PPX-KUS
101		232	309/13-14	PPX-KUS
102	SDR-NWL-WZD	46	50/3-4	MSJ-BDML
103		53	55/10-11	BDML-RKHS
104		80	73/0-1	PJWL-NWL
105		70	59/5-6	NWL-DMLA
106		86	77/4-5	NWL.DMLA
107		21	36/12-13	SMB-UGE
108		28	33/15 to 34/0	UGE.SLK
109		30	34/13-14	UGE.SLK
110		31	36/10-11	UGE.SLK
111		26	20/10-11	UGE.SLK
Rawalpindi Division of Pakistan Railways				
112	Lalamusa Jn-Malakwal Jn	8-III	9/11-12.	Akhtar Kamana -jaurah karnana
113		13-III	13/15-16.	jaurah karnana-Pir Jand Halt
114		26-III	29/14-15.	Dinga-chak sher Muhammad
115		31-III	34/5-6.	Chilian wala-mandi Bahaud din
116		60-III	70/8-9.	Hariah-malak wal
117	Khushab Jn-Kundian Jn	71-III	161/10-11.	Charnali-sarghoda
118		93-III	182/9-10.	Mithalek-Ajnala
119		96-III	187/5-6.	Ajnala-quderatabad
120		144-III	231/8-9.	Pakhowal-Bahlnn mian wala halt

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

PRICED BOQ FOR CIVIL WORKS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annexure 1

BILL OF QUANTITIES

FOR

CONVERSION OF ONE HUNDRED TWENTY (120) UNMANNED LEVEL CROSSINGS INTO MANNED LEVEL CROSSINGS ON (RAWALPINDI, LAHORE & MULTAN DIVISION)

S. No.	Description	Qty	Unit	Offered Unit Rate		
				In figure	In words	Total Cost (In Rs)
	SCHEDULE ITEMS					
	A) Civil works (Road, Duty Hut, Gate Leaves, Drain & Fencing etc).					
1	Percentage above / below on Pakistan Railways Composite Schedule of Rates -2016 (Lahore Division) **BOQ attached as Annexure-1-A**	**Rs. 370,084,144** At par cost	%age above / below			
	NON-SCHEDULE ITEMS					
	B) Through Rates					
1	Earth Work in ordinary soil for embankments lead up to 100 ft. including ploughing & mixing with blade, grade, or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects	1,176,000	Cft			
	Total (A+B)					

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BOQ of 120 Nos of Level Crossings					
S No.	Description	Quantity	Rate		
			At	Per	Amount
1	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work, except crushed stone aggregate, for which supply within three miles is included in the rate. (b) Crushed stone aggregate as per specifications(17.1.2-b)	288000	41.4	Cft	11923200
2	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone, screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all materials to site of work except crushed stone aggregate, for which supply within three miles is included in the rate. (17.2.1)	288000	47.6	Cft	13708800
3	Providing and laying plant premix bituminous carpet mixed in batching plant and laid with paver premix including compaction, finishing to required camber, grade and density (including seal coat) complete in all respect:- (a) 4.0% Bitumen 3" thick (17.3.5)	576000	145.5	Sft	83808000
4	Providing and laying bituminous priming coat, using 10 lbs, kerosene oil and 10 lbs bitumen (binder) per 100sft. (17.3.1)	576000	11.2	Sft	6451200
5	Providing and laying road edging of 3" wide and 9" deep brick on edge, complete in all respect:- (17.5.1)	24000	27	Rft	648000
6	Providing 4-1/2" thick dry brick on edge paving, sand grouted, including preparation of bed by watering, ramming and bringing the same to	108000	68.5	Sft	7398000

	proper camber by 1/2" thick mudplaster,complete in all respects (9.1.3)				
7	Carriage of 100 cft (2.83 m3) of all materials like stone aggregate, spawl, kankar, brick bats, lime (unslaked), surkhi, sand etc. or 200 cft (5.66 m3) of timber, by truck or by any other means owned by the contractor. Up to 158 mile 2.1.1(h.i.j.k)	576000	7235.2	% Cft	41674752
8	Carriage of 100 cft (2.83 m3) of all materials like stone aggregate, spawl, kankar, brick bats, lime (unslaked), surkhi, sand etc. or 200 cft (5.66 m3) of timber, by truck or by any other means owned by the contractor. (b) In ordinary soil. chapter # 4 (4.3.1-b)	329160	799	%Cft	2629988
9	Providing and laying cement concrete with brick ballast 1-1/2" to 2" gauge in foundation and plinth:- (b) Ratio 1:4:8 chapter # 5 (5.2.2-b)	75676	141	Cft	10670380
10	Providing cement concrete plain using coarse sand and screened graded & washed aggregate of approved quality including placing compacting, finishing, curing, complete as per specifications without shuttering on ground floor of buliding and for structrues up to 20ft height. (a) Nominal mix 1:2:4 chapter # 5 (5.4.1-a)	84000	235	Cft	19740000
11	Fabrication of small steel work, such as gusset plates, knees, bends, stirrups, straps, rings, etc, including cutting, drilling, rivetting, handling, assembling and fixing but excluding erection in position. chapter # 13 (13.1.1)	24000	185	Kg	4440000
12	Fabrication of heavy steel works, with angle, tees, flat iron, round iron and sheet iron for making trusses, girders, tanks, gate leaves, special type iron grills, etc. including cutting, drilling, rivetting/welding, handling, assembling and fixing but excluding erection in position. chapter # 13 (13.2.1)	288000	120	Kg	34560000
13	Erecting rolled steel beams or rails, erection for posts, gate leaves, special type iron grills, etc. (other than in roofs).chapter # 13 (13.4.5)	2820000	3.7	Kg	10434000
14	Providing vertical wooden/steel shuttering for plain cement concrete works, including its erection and removal	84000	44.4	Sft	3729600

	complete. chapter # 5 (5.5.1)				
15	Preparing surface and painting guard bars, gates of iron bars, gratings, railing, boiler tube, tie bar and wooden fencing (including standards, braces, etc.) and in similar open work; Ch.12.3.4(a,b) 2 coatings	114000	18.75	Sft	2137500
16	Providing & laying reinforced cement concrete (including prestressed concrete), using coarse sand and crushed stone of approved quality /source, including mixing, transporting, placing, compacting, finishing and curing etc. complete in all respect as per specification but excluding the cost of steel reinforcement, its fabrication and placing in position etc. (a) Reinforced cement concrete in roof slabs, beams, columns, lintels, girders & other structural members cast in-situ or pre-stressed members cast in-situ complete in all respect as per specifications, including the cost of form work, moulds and shuttering complete in all respects, on ground floor of the buliding and for structures upto 20 ft height (iii) Nominal mix1:2:4 chapter # 5 (5.7.1-(iii))	85800	360	cft	30888000
17	Providing and laying mild steel reinforcement including the cost of straightening, cutting, bending, binding, wastage, and overlaps as are not shown in the drawing, placing in position on cement concrete 1:2:4 spacers or MS chairs, tying them with binding wire, complete in all respects as per drawing and in accordance with the specifications. (b) Deformed bars (Grade 60) fy= 60,000 Psi/ 412 N/mm2 (Mpa) chapter # 5 (5.6.1-b)	288600	118	kg	34054800
18	Cement sand plaster 1:4 upto 20 ft (6 m) height (b) 1/2" thick (12 mm):- chapter # 10 (10.3.3-b)	132840	22.8	Sft	3028752
19	Providing ,laying and jointing first class pacca brick work other than in buildings above foundations and plingth upto 10 ft (3 m) height including scaffolding, raking of joints and curing as per drawings and specifications, complete in all respects in (d) Cement sand mortar 1:6:- chapter # 6 (6.4.1-d)	20640	207	Cft	4272480

20	Cutting rails or rolled steel beams of size upto 6" with jim. chapter # 13 (13.11.2)	37080	136	Cut	5042880
21	Making bolts and nuts of steel rods.13.1.2	12000	201	kg	2412000
22	Drilling holes, in plates upto 1/2" thick per inch dia or part thereof. Chapter 13.11.4	18000	51.4	kg	925200
23	Providing, laying and jointing pacca brick work in foundation and plinth in buildings or other than buildings using first class new bricks, raking of joints and curing as per drawings and specifications, complete in all respects in (d) Cement sand mortar 1:6:- chapter # 6 (6.1.1-d)	24000	216	Cft	5184000
24	Providing and laying damp proof course of cement concrete 1:2:4 nominal mix (using cement, sand and shingle/crushed stone), including bitumen coating:- With one coat of bitumen 10/20 grade @ 19 lbs per 100 sft and polythene sheet 500 gauge. (i) 1-1/2" (40 mm) thick chapter # 5 (5.3.1(a)-i)	7200	62.8	sft	452160
25	Providing, laying and jointing first class pacca brick work in ground floor for 9" (225 mm) to 13-1/2" (337 mm) thick walls including scaffolding, raking of joints and curing as per drawings and specifications complete in all respects in (d) Cement sand mortar 1:6:- chapter # 6 (6.1.3-d)	54000	222	cft	11988000
26	Providing and fixing panelled door of M.S. sheet, with forged door leaves of M.s. sheet 22 S.W.G. fitted in hollow frame chowkat 3"x4-1/2" made of M.S. sheet 18 S.W.G. filled with plain cement concrete 1:3:6 etc. complete, with all fittings and hammer painting, including carriage to site and fixing in position. 13.5.8	2880	417	Sft	1200960
27	Providing and fixing steel windows with openable glazed panells, using beam section for frame 1-1/2" x 1" x 5/8" x 1/8", Z-section for leaves 3/4" x 1"x 3/4" x 1/8", T-section sashes 1" x 1" x 1/8", glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings holdfast, duly painted, complete in all respects, including all cost of material and labour, etc., as per approved design and as directed by the engineer-incharge (iii) Glass Pane 5 mm thick.:- 13.5.5(a) iii	1828	457	sft	835396

28	Providing & laying topping of cement concrete 1:2:4 flooring including surface finishing and dividing into pannels as per specifications and complete in all respects (b) 1-1/2" thick:- (9.3.1-b)	32400	45.9	sft	1487160
29	Providing and laying single layer of tiles 9" x 4-1/2" x 1-1/2", grouted with cement sand morter 1:3, laid over 1" mud plaster, over 4" thick earth, over 34 lbs per 100 sft bitumen coating blinded with sand at 1 cft/100 sft laid on top of RCC/Precast RCC roof slab, ,excluding polythene sheet as per specification and complete in all respects. (8.1.3)	24000	78.6	cft	1886400
30	Cement sand pointing struck joints on walls, upto 20 ft (6 m) height (b) Ratio 1:3 (Cement & sand):-chapter # 10 (10.4.3-b)	90000	22.1	Sft	1989000
31	Cement sand pointing flush, upto 20 ft (6 m) height (b) Ratio 1:3 (Cement & sand):- (10.4.1-b)	66000	19.7	Sft	1300200
32	White washing new surface 3 coats chapter # 10 (10.5.3-iii)	90000	3.47	Sft	312300
33	Providing and fixing first class deodar wood wrought joinery work in wire gauze doors and windows with 22 SWG G.I. wire gauze, 12x12 meshes per square inch including iron fittings, wooden strips etc. complete in all respects. G.I. Wire gauze 22 SWG, 12x12 meshes per square inches, fixed to chowkat with 3/4" thick deodar wood strip and screws. (11.4.1-c)	2400	169	cft	405600
34	Providing ,laying and jointing first class pacca brick work other than in buildings above foundations and plintth up to 10 ft (3 m) height including scaffolding, raking of joints and curing as per drawings and specifications, complete in all respects, in:- (d) Cement sand mortar 1:6	29664	207	cft	6140448
35	Providing cement concrete plain using coarse sand and screened graded & washed aggregate of approved quality including placing compacting, finishing, curing, and complete as per specifications without shuttering on ground floor of building and for structures up to 20ft height. (c) Nominal Mix (1:4:8)	15196	153	cft	2324988
Total					**370084144**

PRICED BOQ OF TRACK WORKS

BOQ FOR TRACK WORKS

120 Nos. Level Crossings

S. No.	Description	Qty	Unit	Offered Unit Rate		Total Cost (In Rs)
				In figure	In words	
	NON-SCHEDULE ITEMS					
	A) Through Rates					
1	Check rail 100 R 36'-0" (4 Nos)	526,700	Cm			
2	Bolts & Nuts 12"/13"x1"	4320	Nos			
3	Square washer	17280	Nos			
4	C. I Distance block universal.	8,640	Nos			
5	Wooden sleeper chir 9'x10"x6"	3000	Each			
6	W.I check Chair for D/Check rail.	4,320	Each			
7	W.I Dog spikes B. G.	41,280	Each			
8	W.I Bearing Plate	1680	Each			
9	Supplying and laying of 2" nominal size mechanically crushed stone ballast from approved source (Nishtarabad Quarry) by road vehicle, dumper truck or any other means according to revised railway specifications including all charges, such as royalty, lead. lift, handling, re-handling, screening, and other incidental charges and at thirty (30) Nos level crossings.	120,000	Cft			
	Total (A)					

CCP

Pakistan Railways, Lahore

Signature of the bidder_____

(With official seal)

Rates of P-Way Items

S. No.	Description	Qty	Unit	P.R Rate
1	Check rail 100 RE (SS)	1	Cm	140
2	Bolts & Nuts 12”/13"x1"	1	Nos	871
3	Square washer	1	Nos	160
4	C. I Distance block universal.	1	Nos	1230
5	Wooden sleeper chir 9'x10"x6"	1	Each	33500
6	W.I check Chair for D/Check rail.	1	Each	8990
7	W.I Dog spikes B. G.	1	Each	234
8	W.I Bearing Plate	1	Each	6892

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PRICED BOQ OF SIGNALING & TELECOMMUNICATION WORKS

BOQ FOR SIGNAL & TELECOMMUNICATION WORKS

120 Nos. Level Crossings

S. No.	Description	Qty	Unit	Offered Unit Rate		Total Cost (In Rs)
				In figure	In words	
	NON-SCHEDULE ITEMS					
	A) Through Rates					
1	Starter Single Arm IRS type complete with fitting	240	528713			
2	Frame 3 Lever build up type complete	120	484874			
3	Lock Gate Post double with key No. 69R+70R complete	240	64162			
4	Lock Gate Ground 70R Double W/O key	120	96892			
5	Stakes ordinary complete 1-wire	10800	6204			
6	Crank adjusting single complete IRS type	120	34330			
7	Crank vertical 12×12 IRS type complete	120	26960			
8	Wheel vertical 9" dia single	240	8186			
9	Wheel Side 9" dia Single complete	240	9070			
10	Screw wire adjusting double	240	9075			
11	Lamp case IRS type complete with fitting w/o burner	240	48320			
12	Thimble large	1200	636			
13	Base CIR for rod roller	2400	1859			
14	Shackle single 1/2" pin	1200	3327			
15	Shackle split	1200	748			
16	Foundation "A" type drilled IRS type	360	20916			

17	Forkend Adjusting 1.1/4" Rod with 1" pin Complete	120	12436			
18	Forkend 1.1/4" Rod with 1" pin for crank complete.	480	7130			
19	Forkend crescent 1.1/4" Rod with 1" pin	120	8063			
20	Bolt Holding Down 4'×1"	960	5449			
21	Bolt & Nuts Steel 30" × 3/4" BSW Threads	480	2551			
22	wheel 12" increase stroke complete	240	12258			
23	M.S plate 4'×4'×1/4"	120	20000			
24	M.S plate 1'×1'×1/4"	240	1500			
25	Supply of Bolt & Nuts 3.1/2" × 1/2"	1800	500			
26	Supply of Bolt & Nuts 3.1/2" × 5/8"	1800	500			
27	Supply of Bolt & Nuts 3.1/2" × 3/4"	1800	500			
28	Supply of Wire 7 stand 17 SWG galvanized	72000	750			
29	Supply of G.I Pipe IIL(M) 2" dia with socket at one end	4320	2300			
30	Supply of Signal cable Armoured underground 4×1×1.5 mm	398756	610			
31	Supply of Signal cable Armoured underground 8×1×1.5 mm as per CSE specification No.2-Cable (R-3) (As per railway specification).	28000	1200			
32	Supply of Signal cable Armoured underground 18×1×1.5 mm as per CSE specification No.2-Cable (R-3) (As per railway specification).	18400	2800			
33	Supply of Signal cable Armoured underground 21×1×1.5 mm as per CSE specification No.2-Cable (R-3) (As per railway specification).	3200	3200			
34	Cost of providing & installation cable junction box 2'×1.5×1.5' sq feet complete with legs 4 feet long	480	6500			

	(14 swg sheet)					
35	Digging for cable trench 01 meter deep 01 feet wide & laying of signal cable in it (HDPE) pipe & back filling work upto earth level & compacted to previous condition. The G.I pipe should be used (instead of HDPE) while passing the cable under the track or road or along a Bridge.	396000	620			
36	Providing & Fixing of cable route indicator at a distance of 50 meter apart (concrete)as per railways standard.	7800	990			
37	Supply of MS Chain Straight Link 1/4" thick Galvanized, 12' long	480	17180			
38	Supply of Lenses Red Roundle 8.3/8" dia	240	6000			
39	Supply of Lenses Green Roundle 9.5/8" dia	240	6500			
40	Supply of Magneto telephone with dry cells (02 Nos, 1.5 V,100 Ah for each) and Installation on wooden stand as per railway standard.	240	33000			
41	Supply of Signal Lamp LED type comlete, solar pannel 5-watts 12 volt with stand, dry battery 12V/5Ah (LIDDO or equivalent) with fitting for each signal.	240	20000			
42	Labour charges of the construction of foundation of three lever frames, signal post, fitting of 03 lever frames, junction boxes, ground lock, gate post locks, Horizantal & Vertical wheels, stakes, wires etc and completion of said work in all aspects.	120	175000			
43	Paint and painting of signal post, lever frame and junction boxes etc. paint (enamel "MASTER" or equivalent as per railway standard (3 statin) for 30 level crossings	4	65000			
	Total (A)					

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

CCP

Pakistan Railways, Lahore

Signature of the bidder_____

(With official seal)

Rates of Signal Items

SR.NO	DESCRIPTION	QTY	RATE		COST		
			AT	PER	CASH	STORE	TOTAL
1	Starter Single Arm IRS type complete with fitting	240	528713	EA	0	126891120	126891120
2	Frame 3 Lever build up type complete	120	484874	EA	0	58184880	58184880
3	Lock Gate Post double with key No. 69R+70R complete	240	64162	EA	0	15398880	15398880
4	Lock Gate Ground 70R Double W/O key	120	96892	EA	0	11627040	11627040
5	Stakes ordinary complete 1-wire	10800	6204	EA	0	67003200	67003200
6	Crank adjusting single complete IRS type	120	34330	EA		4119600	4119600
7	Crank vertical 12×12 IRS type complete	120	26960	EA	0	3235200	3235200
8	Wheel vertical 9" dia single	240	8186	EA	0	1964640	1964640
9	Wheel Side 9" dia Single complete	240	9070	EA	0	2176800	2176800
10	Screw wire adjusting double	240	9075	EA	0	2178000	2178000
11	Lamp case IRS type complete with fitting w/o burner	240	48320	EA	0	11596800	11596800
12	Thimble large	1200	636	EA	0	763200	763200
13	Base CIR for rod roller	2400	1859	EA	0	4461600	4461600
14	Shackle single 1/2" pin	1200	3327	EA	0	3992400	3992400
15	Shackle split	1200	748	EA	0	897600	897600
16	Foundation "A" type drilled IRS type	360	20916	EA	0	7529760	7529760
17	Forkend Adjusting 1.1/4" Rod with 1" pin Complete	120	12436	EA	0	1492320	1492320
18	Forkend 1.1/4" Rod with 1" pin for crank complete.	480	7130	EA	0	3422400	3422400
19	Forkend crescent 1.1/4" Rod with 1" pin	120	8063	EA	0	967560	967560

20	Bolt Holding Down 4'×1"	960	5449	EA	0	5231040	5231040
21	Bolt & Nuts Steel 30" × 3/4" BSW Threads	480	2551	EA	0	1224480	1224480
22	wheel 12" increase stroke complete	240	12258	EA	0	2941920	2941920

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PRICED BOQ OF ELECTRIC WORKS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

BOQ FOR ELECTRICAL WORKS

120 Nos. Level Crossings

S. No.	Description	Qty	Unit	Offered Unit Rate		Total Cost (In Rs)
				In figure	In words	
	NON-SCHEDULE ITEMS					
	Through Rates					
1	**Supply, Fixing & Commissioning of 1.5 kW Solar System & Accessories (Complete Package):** Supply, installation, testing, and commissioning of **1.5 kW Solar Power System**, including Tier-1 Monocrystalline N-Type TOPCon PV Solar Panels (~1,170W total), 1.6 kW–2.2 kW Pure Sine Wave Hybrid Solar Inverter (24V DC), and 2 Nos. 12V 150Ah Deep-Cycle Lithium Batteries. Work includes fabrication and fixing of L2/L3 heavy-duty galvanized iron (GI) mounting structure, factory-fitted/powder-coated DB & Protection Panels fitted with AC/DC MCBs, DC Surge Protection Device (SPD), changeover switch, 6mm² DC flexible solar cable, MC4 connectors, chemical/GI earthing grounding, civil anchoring, hardware, labor, testing, and full system commissioning.	120				
2	**Internal & External Electrical Wiring, Conduit & Fixtures Installation:** Complete electrical wiring and fixture installation for **Duty Hut (4'x4'), equipment room (8'x8') & Bath (4'x4')**, including supply and pulling of 3/.029" and 7/.029" 450/750V Grade 99.9% Copper Cables (Pakistan Cables / Fast Cables or approved equal) through 3/4" PVC conduit pipes/ducts with all fittings (bends, junction boxes, saddles). Item includes complete fixing, wiring, and testing for **1 No. Ceiling Fan, 1 No. bracket fan**, **6 Nos. Indoor/Outdoor LED Light Fixtures/Floodlights**, gang switchboards with socket points, and distribution wiring connections as instructions by Site Engineer.	120				
	Total					

CCP
Pakistan Railways, Lahore
Signature of the bidder_____
(With official seal)