



# **Mechinagar Municipality**

Office of Municipal Executive  
Koshi Province

## **BIDDING DOCUMENT**

**for**

### **THE PROCUREMENT OF WORKS**

National Competitive Bidding (NCB)  
Single-Stage: Two-Envelope Bidding Procedure  
(Without Prequalification)

#### **Procurement of:**

**Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380)**

**Employer:** *Mechinagar Municipality, Office of Municipal Executive, Koshi Province*

**Project:** *Nepal Urban Governance and Infrastructure Project (NUGIP)*

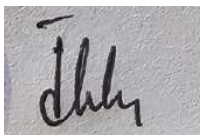
**Contract title:** *Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380)*

**Country:** *Nepal*

**Loan No. /Credit No.:** *IDA-6778-NP*

**RFB No:** *NP-DUDBC-400272-CW-RFB*

**Issued on:** *7 January 2024*



## SECTION I

### Instructions to Bidders (ITB)

This Section provides relevant information to help the Bidders to prepare their Bids. Information is also provided on the submission, opening, and evaluation of Bids and on the award of Contract.

The Instructions to Bidders (ITB) specify the procedures that regulate the bidding process. The ITB contain standard provisions that have been designed to remain unchanged and to be used without modifying their text. The ITB clearly identify the provisions that may need to be specified for a particular bidding process and require that such specification be introduced through the BDS.

The Instructions to Bidders are not a Contract document and, therefore, are not a part of the Contract.

## SECTION II

### Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) contains information and provisions that are specific to each bidding process. The Employer must specify in the BDS only the information that the ITB request be specified in the BDS. All information shall be provided; no clause shall be left blank.

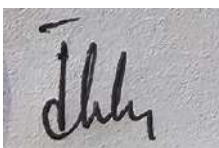
To facilitate the preparation of the BDS, its clauses are numbered with the same numbers as the corresponding ITB clauses. The Guide provides information to the Employer on how to enter all required information and includes a BDS format that summarizes all information to be provided.

## SECTION III

### Evaluation and Qualification Criteria (EQC)

The purpose of the Evaluation and Qualification Criteria (EQC) is to specify the criteria that the Employer will use to evaluate the Bids and the qualifications of the Bidder to perform the contract. The Procuring Entity shall prepare the EQC by taking into account the nature, quantity and or amount of the procurement and include it as a part of the Bidding Document. In determining the Evaluation and Qualification Criteria, the Procuring Entity shall not limit the competition or make onerous criteria.

The EQC is not a part of the Contract document.





## SECTION IV Bidding Forms

This Section includes the forms for the Bid Submission, Bill of Quantities, Schedules of technical proposal, including technical and financial qualifications, personnel, financial resources, and equipment, Bid Security and others to be completed by the Bidder and submitted as part of his Bid.

## SECTION V Eligible Countries

This section contains information regarding the eligible countries.

## SECTION VI Works Requirements

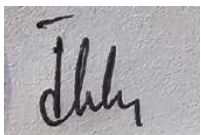
This Section specifies the Scope of Works, Specification, the Drawings, and supplementary information that constitute the Works' Requirements for the Works to be procured. The Works' Requirements also include the environmental and social (ES) requirements (including requirements relating to Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH) which are to be satisfied by the Contractor in executing the works.

## SECTION VII Bill of Quantities (BOQ)

This Section provides estimated information on the itemized quantities in sufficient detail to distinguish between the different classes of Works to be performed by the bidder and enable the Bidder to prepare priced bill of quantities efficiently and accurately.

## SECTION VIII General Conditions of Contract (GCC)

The GCC contain standard provisions that have been designed to remain unchanged and to be used without modifying their text. This Section provides the General Conditions of Contract that will apply to the Contract for which the Biding document is issued. The GCC clearly identify the provisions that may normally need to be specified for a particular bidding process and require that such information be



introduced through the SCC. This Section also includes the Fraud and Corruption provisions as an Appendix which apply to this Bidding process.

## SECTION IX Special Conditions of Contract (SCC)

The contents of this Section supplement Section VII: General Conditions of Contract. The Special Conditions of Contract shall be prepared by the Procuring Entity.

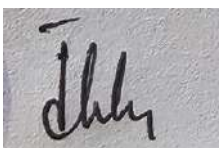
The Special Conditions of Contract (SCC) contain provisions that the GCC require be specified for a particular bidding process. The Employer should include at the time of issuing the Bidding Document, all information that the GCC indicate shall be provided in the SCC. No SCC Clause should be left blank.

To facilitate the preparation of the SCC, the Clauses in the SCC format are numbered with same numbers as the corresponding GCC Clauses. The instructions included in the SCC are to guide the Employer to provide the required information.

The SCC is a part of the Contract Document; therefore, the Procuring Entity shall provide the information in appropriate manner as indicated in the SCC.

## SECTION X Contract Forms

This Section contains the Sample format for letter of intent, Letter of Acceptance, Contract Agreement Form, the forms for Performance Security and Advance Payment Security.

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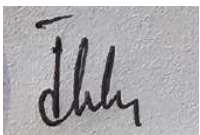


## Abbreviations

BD .....	Bidding Document
BDF .....	Bidding Forms
BDS .....	Bid Data Sheet
BOQ .....	Bill of Quantities
CE.....	Citizen Engagement
C-ESMP .....	Contractor's Environmental and Social Management Plan
COF .....	Contract Forms
DP .....	Development Partners
DoLI .....	Department of Local Infrastructure
ELI .....	Eligibility
ESHS.....	Environmental, Social, Health and Safety
ESIA.....	Environmental and Social Impact Assessment
ESMP .....	Environmental and Social Management Plan
EQC .....	Evaluation and Qualification Criteria
EXP .....	Experience
FIN .....	Financial
GAP.....	Gender Action Plan
GBV .....	Gender-Based Violence
GCC .....	General Conditions of Contract
GoN <sup>1</sup> .....	Government of Nepal
ICC .....	International Chamber of Commerce
IFB .....	Invitation for Bids
ITB .....	Instructions to Bidders
JV .....	Joint Venture
LIT .....	Litigation
LMP .....	Labor Management Plan
NCB .....	National Competitive Bidding
OCHS.....	Occupational and Community Health Safety
PAN .....	Permanent Account Number
PPA .....	Public Procurement Act
PPMO .....	Public Procurement Monitoring Office

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<sup>1</sup> "GoN" word indicates all public entities according to Public Procurement Act, 2063



PPR .....	Public Procurement Regulations
PL .....	Profit & Loss
RAP .....	Resettlement Action Plan
RF .....	Resettlement Framework
SBD .....	Standard Bidding Document
SCC .....	Special Conditions of Contract
SEA .....	Sexual Exploitation and Abuse
SEP .....	Stakeholder Engagement Plan
TS .....	Technical Specifications
VAT .....	Value Added Tax
VCDP .....	Vulnerable Community Development Plan
WRQ .....	Works Requirements





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नि. प्रमोद प्रसादकीर्तन अहिरवार

## Table of Contents

Invitation for Bids .....	8
<b>Part I: BIDDING PROCEDURES .....</b>	<b>10</b>
Section I: Instructions to Bidders .....	13
Section II: Bid Data Sheet .....	35
Section III: Evaluation and Qualification Criteria .....	39
Section IV: Bidding Forms .....	46
Section V - Eligible Countries .....	76
<b>Part II : EMPLOYER'S REQUIREMENTS .....</b>	<b>77</b>
Section VI: Works Requirements .....	79
<b>Part III: CONDITIONS OF CONTRACT AND CONTRACT FORMS .....</b>	<b>117</b>
Section VIII: General Conditions of Contract .....	120
Section IX: Special Conditions of Contract .....	150
Section X: Contract Forms .....	155

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## Invitation for Bids

**Government of Nepal**  
**Mechinagar Municipality**  
**Office of Municipal Executive**  
**Koshi Province**

**Employer:** *Mechinagar Municipality, Office of Municipal Executive, Koshi Province*

**Project:** *Nepal Urban Governance and Infrastructure Project (NUGIP)*

**Contract title:** *Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380)*

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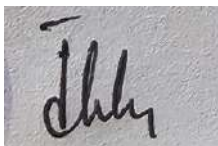
**Issued on:** *7 January 2024*

1. **The Government of Nepal [GoN] has received a loan/credit/grant** from the World Bank towards the cost of the Nepal Urban Governance and Infrastructure Project (NUGIP) and intends to apply part of the funds to cover eligible payments under the Contract **for Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380)**. Bidding is open to all eligible as per Section V of bidding document.
2. **The Mechinagar Municipality** invites electronic bids from eligible bidders for the procurement of Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380). The proposed road improvement work includes widening and improvement of 8.38Km existing road to double-lane carriageway width with provision of traffic safety configurations and utilities complying the urban road standard. It comprises construction of a flexible pavement with granular sub base, wet mix macadam, asphalt concrete layers. The proposed alignment will also have road side drains, cross drainage structures (Box/pipe/slab culverts,), protection works and road furniture etc. under National Competitive Bidding – Single Stage Two Envelope Bidding procedures.
3. Eligible bidders at least with the following key qualifications should participate in this bidding (refer Section III for other qualification criteria):

Minimum average annual construction turnover of **NRs. 503,000,000.00**, calculated as average of total certified payments received for contracts in progress and/or completed in last 5 years. A minimum number of **one** road construction with Asphalt concrete pavement works contract of minimum value **NRs. 335,100,000.00** that have been satisfactorily and substantially completed within the last 10 years as a prime contractor, joint venture member, management contractor or Subcontractor.

4. Under the Single Stage, Two Envelope Procedure, Bidders are required to submit simultaneously two separate sealed envelopes, one containing (i) the Technical Bid and the other (ii) the Price Bid, both in turn enclosed in one sealed envelope as per the provision of ITB 21 of the Bidding Document.
5. Eligible Bidders may obtain further information and inspect the Bidding Documents at the office of Mechinagar Municipality, Office of Municipal Executive, Chief Administrative Office, Mechinagar, Jhapa district, Koshi Province, Telephone Number: +977-23-562437/562505, Email address: [ito.mechinagarmun@gmail.com](mailto:ito.mechinagarmun@gmail.com), Website address: [mechinagarmun@gmail.com](mailto:mechinagarmun@gmail.com) or may visit PPMO e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp).
6. A complete set of Bidding Documents may be purchased from the Mechinagar Municipality, Office of Municipal Executive, by eligible Bidders on the submission of a written application, along with the *copy of company/firm registration certificate*, and upon payment of a non-refundable fee of **NRs. 20,000** till 8<sup>th</sup> February 2024 **during office hours**.

Or





मि. प्रमुख प्रशासकीय अधिकारी  
मेचिनागर नगरपालिका

Bidder who chooses to submit their bid electronically may purchase the hard copy of the bidding documents as mentioned above or may download the bidding documents for e-submission from PPMO's e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp). Bidders, submitting their bid electronically, should deposit the cost of bidding document in the Project's Rajaswa (revenue) account as specified below.

**Information to deposit the cost of bidding document in Bank:**

Name of the Bank: Nepal Bank Limited, kakerbhitta Branch

Name of the Office: Mechinagar Municipality, Office of Municipal Executive

Office Account No.: 10603000001001000001 (Revenue account)

Rajaswa (revenue) Shirshak no: 14229

7. Electronic bids must be submitted to the Mechinagar Municipality, Office of Municipal Executive, Chief Administrative Officer, Itabhatta, Jhapa, Koshi Province or through PPMO's e-GP system [www.bolpatra.gov.np/egpon](http://www.bolpatra.gov.np/egpon) or before 12:00 hours of 9<sup>th</sup> February 2024 Bids received after this deadline will be rejected.
8. The bids will be opened in the presence of Bidders' representatives who choose to attend at 13:00 hours of 9<sup>th</sup> February 2024 at the office of **Mechinagar Municipality, Office of Municipal Executive, Itabhatta, Jhapa, Koshi Province**. Bids must be valid until 10<sup>th</sup> May 2024 and must be accompanied by a bid security or scanned copy of the bid security in pdf format in amounting to a minimum of NRs. 10,500,000.00, which shall be valid until 9<sup>th</sup> June 2024
9. If the last date of purchasing and /or submission falls on a government holiday, then the next working day shall be considered as the last date. In such case the validity period of the bid and bid security shall remain the same as specified for the original last date of bid submission.
10. The address referred to above is:

Mechinagar Municipality, Office of Municipal Executive

Chief Administrative Officer

Itabhatta, Jhapa, Koshi Province

Telephone Number: +977-23-562437/562505

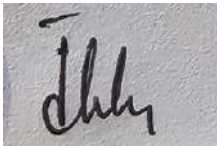
Email address: [ito.mechinagarmun@gmail.com](mailto:ito.mechinagarmun@gmail.com)

Website address: [mechinagarmun@gmail.com](mailto:mechinagarmun@gmail.com)

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# Part I: BIDDING PROCEDURES

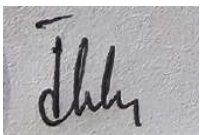




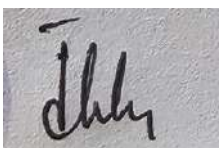
# **Section I: Instructions to Bidders**

## **Table of Contents**

<b>A. General</b> .....	<b>13</b>
1. Scope of Bid .....	13
2. Source of Funds .....	14
3. Fraud and Corruption .....	14
4. Eligible Bidders .....	15
5. Eligible Materials, Equipment and Services .....	17
<b>B. Contents of Bidding Documents</b> .....	<b>17</b>
6. Sections of Bidding Document .....	17
7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting .....	18
8. Amendment of Bidding Document.....	18
9. Cost of Bidding .....	19
10. Language of Bid.....	19
11. Documents Comprising the Bid .....	19
12. Letter of Bid and Schedules .....	20
13. Alternative Bids .....	20
14. Bid Prices and Discounts .....	20
15. Currency of Bid and Payment .....	21
16. Documents Comprising the Technical Proposal .....	21
17. Documents Establishing the Qualifications of the Bidder .....	21
18. Period of Validity of Bids .....	21
19. Bid Security .....	21
20. Format and Signing of Bid .....	22
<b>D. Submission and Opening of Bids</b> .....	<b>23</b>
21. Sealing and Marking of Bids .....	23
22. Deadline for Submission of Bids .....	25
23. Late Bids .....	25
24. Withdrawal, and Modification of Bids .....	26
25. Bid Opening .....	26
<b>E. Evaluation and Comparison of Bids</b> .....	<b>28</b>
26. Confidentiality .....	28
27. Clarification of Bids .....	28
28. Deviations, Reservations, and Omissions .....	28
29. Examination of Technical Bid .....	28



30. Determination of Responsiveness of Technical Bid .....	29
31. Nonconformities, Errors, and Omissions .....	29
32. Qualification of the Bidder .....	30
33. Correction of Arithmetical Errors .....	30
34. Subcontractors .....	30
35. Evaluation of Price Bids .....	31
36. Comparison of Bids .....	32
37. Employer's Right to Accept Any Bid, and to Reject Any or All Bids .....	32
38. Award Criteria .....	32
39. Letter of Intent to Award the Contract/Notification of Award .....	32
40. Performance Security and Line of Credit .....	32
41. Signing of Contract .....	32
42. Complaint and Review .....	33

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## Section I: Instructions to Bidders

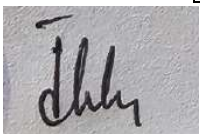
<b>A. General</b>	
1. Scope of Bid	<p>1.1 In connection with the Invitation for Bids indicated in the Bid Data Sheet (BDS), the Employer, as indicated in the BDS, issues this Bidding Document for the procurement of Works as specified in Section VI (Works Requirements). The <b>name, identification, and number</b> of lots (contracts) of the National Competitive Bidding (NCB) are <b>provided in the BDS</b>.</p> <p>1.2 Throughout this Bidding Document:</p> <p>(a) the term “in writing” means communicated in written form and delivered against receipt;</p> <p>(b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular;</p> <p>(c) “day” means calendar day; and</p> <p>(d) “<b>ES</b>” means environmental and social (including Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH));</p> <p>“<b>Sexual Exploitation and Abuse</b>” “(SEA)” means the following:</p> <p><b>Sexual Exploitation</b> is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another.</p> <p><b>Sexual Abuse</b> is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;</p> <p>“<b>Sexual Harassment</b>” “(SH)” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Contractor’s Personnel with other Contractor’s or Employer’s Personnel;</p> <p>“<b>Contractor’s Personnel</b>” is as defined in Sub-Clause 15 of the General Conditions of Contract; and</p> <p>“<b>Employer’s Personnel</b>” is as decided by the Project Manager as defined in Sub-Clause 1.1(bb) of the General Conditions of Contract.</p> <p>“<b>ESHS</b>” means environmental, social, health and safety (including sexual exploitation and abuse (SEA) and Sexual Harassment (SH) and, gender based violence (GBV)), health and safety; and</p> <p>“<b>OCHS</b>” means occupational and community health and safety.</p> <p>“<b>ESMF</b>” means Environmental and Social Management Framework (including Resettlement Framework/ RF, SEP, and Labor Management Procedure</p> <p>“<b>ESMP</b>” means Environmental and Social Management Plan</p> <p>“<b>LMP</b>” means Labor Management Plan</p> <p>“<b>SEP</b>” means Stakeholder Engagement Plan</p>



2. Source of Funds	2.1 The GoN has applied for or received financing (hereinafter called “funds”) from the World Bank toward the cost of the project named in the <b>BDS</b> . The GoN intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.
3. Fraud and Corruption	<p>3.1 Procuring Entities as well as Bidders, suppliers and contractors and their sub-contractors shall adhere to the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this::</p> <p>(a) the Employer adopts, for the purposes of this provision, the terms as defined below:</p> <p>(i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;</p> <p>(ii) “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;</p> <p>(iii) “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;</p> <p>(iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.</p> <p>v) “obstructive practice” means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an investigation; (b) making false statements to investigators in order to materially impede an investigation; (c) failing to comply with requests to provide information, documents, or records in connection with an investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding GoN/World Bank’s contractual rights of audit or access to information; and</p> <p>vi) “integrity violation” is any act which violates Anticorruption Policy, including (i) to (v) above and the following: abuse, conflict of interest, violations of GoN/World Bank sanctions, retaliation against whistleblowers or witnesses, and other violations of Anticorruption Policy, including failure to adhere to the highest ethical standard.</p> <p>(b) the Employer will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the contract;</p> <p>(c) The World Bank may cancel the portion of the financing allocated to a contract if it determines at any time that representative(s) of the GoN/or of a beneficiary of Bank financed Contract-is engaged in corrupt, fraudulent, collusive, or coercive practices or other integrity violations during the procurement or the execution of that contract.</p> <p>(d) World Bank may also impose remedial actions on a firm or an individual, at any time, in accordance with the World Bank’s Anticorruption Policy and related Guidelines (as amended from time to time), including declaring</p>



	<p>ineligible, either indefinitely or for a stated period of time, to participate in the World Bank-financed, -administered, or -supported activities or to benefit from the World Bank-financed, -administered, or -supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations; and</p> <p>(e) The Contractor shall permit the GoN/World Bank to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the GoN /World Bank, if so required by the GoN/World Bank.</p> <p>3.2 The Bidder shall not carry out or cause to carry out the following acts with an intention to influence the implementation of the procurement process or the procurement agreement :</p> <p>(a) give or propose improper inducement directly or indirectly, (b) distortion or misrepresentation of facts, (c) engaging in corrupt or fraudulent practice or involving in such act, (d) interference in participation of other competing bidders, (e) coercion or threatening directly or indirectly to cause harm to the person or the property of any person to be involved in the procurement proceedings, (f) collusive practice among bidders before or after submission of bids for distribution of works among bidders or fixing artificial/uncompetitive bid price with an intention to deprive the Employer the benefit of open competitive bid price, (g) Contacting the Employer with an intention to influence the Employer with regards to the bids or interference of any kind in examination and evaluation of the bids during the period from the time of opening of the bids until the notification of award of contract.</p>
<p>4. Eligible Bidders</p>	<p>4.1 A Bidder may be a natural person, private entity, or government owned entity subject to ITB 4.5 or any combination of them in the form of a Joint Venture (JV) under an existing agreement, or with the intent to constitute a legally-enforceable joint venture. In the case of a JV:</p> <p>(a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. Maximum number of JV shall be as specified in the BDS and</p> <p>(b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during Contract execution.</p> <p>(c) Joint Venture Arrangement shall have the following provisions:</p> <p>i. Joint Venture Agreement shall nominate a lead member who will lead and bind the joint venture and will have the authority to conduct all business for and on behalf of any and all members of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution, ii. Lead member shall have lead/ principal share in the joint venture, iii. The Joint Venture Agreement should specify the scope and parts of the contract to be carried out by each JV member. The assigned scope and parts of contract should correspond the members' respective experience and capacity to implement them; and iv. The Joint Venture agreement includes the clause: "Joint and Several</p>



Liability: All members of the joint venture (JV) shall be jointly and severally liable to the Employer for the execution of the entire Contract. The JV leader shall have the authority to bind the JV. Neither the composition, the constitution, and the legal status nor the scope and parts of the Contract to be carried out by each member, as specified in the Joint Venture Agreement, shall be altered without the prior consent of the Employer. Such consent shall not relieve any altered JV from the joint and several liability to the Employer for the execution of the entire Contract.

4.2 A Bidder, and all parties constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section V (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed sub-contractors or suppliers for any part of the Contract including related services.

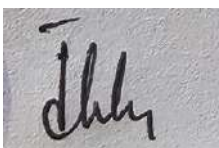
4.3 A Bidder shall not have a conflict of interest. A Bidder found to have a conflict of interest shall be considered ineligible and disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process, if any of, including but not limited to, the following apply:

- (a) they have controlling shareholders in common; or
- (b) they receive or have received any direct or indirect subsidy from any of them; or
- (c) they have the same legal representative for purposes of this bid; or
- (d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to material information about or improperly influence the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- (e) a Bidder participates in more than one bid in this bidding process either individually or as a partner in a joint venture. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms of ITB 4.3 (a)-(d) above, this does not limit the participation of the same subcontractor in more than one bid; or
- (f) a Bidder or any of its affiliated entity, participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or
- (g) a Bidder was affiliated with a firm or entity that has been hired (or is proposed to be hired) by the Employer as Engineer for the Contract.
- (h) a Bidder that has a close business or family relationship with a professional staff of the Procuring Entity.

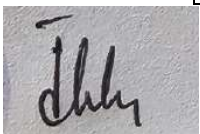
4.4 A Bidder that is under the list of debarred firms and individuals of the World Bank as listed in the Bank's external web page provided in the **BDS**, at the date of the deadline for bid submission or thereafter, shall be disqualified.

4.5 Enterprises owned by Government (SOE) shall be eligible only if they can establish that they are legally and financially autonomous and operate under commercial law, and that they are not a dependent agency of the GoN.

4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.



	<p>4.7 Firms shall be excluded in any of the cases, if</p> <p>(a) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Nepal prohibits any import of goods or Contracting of works or services from that country or any payments to persons or entities in that country.</p> <p>(b) As a matter of law or official regulation, Nepal prohibits commercial relations with that country, provided that the World Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or related services required;</p> <p>(c) A firm is sanctioned or temporarily suspended by the World Bank.</p>
	<p>4.8 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.</p>
<p>5. Eligible Materials, Equipment and Services</p>	<p>5.1 The materials, equipment and services to be supplied under the Contract shall have their origin in any source countries as defined in accordance with Section V (Eligible Countries) and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment and services.</p> <p>5.2 For purposes of ITB 5.1 above, "origin" means the place where the materials and equipment are mined, grown, produced or manufactured, and from which the services are provided..</p>
<p><b>B. Contents of Bidding Documents</b></p>	
<p>6. Sections of Bidding Document</p>	<p>6.1 The Bidding Document consist of Parts I, II, and III, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8.</p> <p><b>PART I Bidding Procedures</b></p> <p>Section I Instructions to Bidders (ITB)</p> <p>Section II Bid Data Sheet (BDS)</p> <p>Section III Evaluation and Qualification Criteria (EQC)</p> <p>Section IV Bidding Forms (BDF)</p> <p>Section V Eligible Countries</p> <p><b>PART II Requirements</b></p> <p>Section VI Works Requirements (WRQ)</p> <p>Section VII Bill of Quantities (BOQ)</p> <p><b>PART III Conditions of Contract and Contract Forms</b></p> <p>Section VIII General Conditions of Contract (GCC)</p> <p>Section IX Special Conditions of Contract (SCC)</p> <p>Section X Contract Forms (COF)</p> <p>6.2 The Invitation for Bids issued by the Employer is not part of the Bidding Document.</p> <p>6.3 The Employer is not responsible for the completeness of the Bidding Document and their Addenda, if they were not obtained directly from the source stated by the Employer in the Invitation for Bids.</p> <p>6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document and to furnish with its bid all</p>

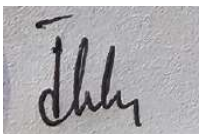




	<p>information and documentation as is required by the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.</p>
<p>7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting</p>	<p>7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer's address <b>indicated in BDS</b> or raise any question or curiosity during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received within the period as mentioned in ITB 7.5. The Employer shall forward copies of its response to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so specified in the BDS, the Employer shall also promptly publish its response at the web page identified in the <b>BDS</b>. Should the Employer deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so following the procedure under ITB 8 and ITB 22.2.</p> <p>7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself, on its own risk and 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.</p> <p>7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its 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 the inspection.</p> <p>7.4 The Bidder's designated representative is invited to attend a pre-bid meeting, if <b>provided for in the BDS</b>. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.</p> <p>7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer as <b>mentioned in BDS</b>.</p> <p>7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3. Any modification to the Bidding Document that 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 ITB 8 and not through the minutes of the pre-bid meeting.</p> <p>7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.</p>
<p>8. Amendment of Bidding Document</p>	<p>8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing agenda.</p> <p>8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.</p> <p>8.3 To give prospective Bidders reasonable time in which to take an addendum into</p>



	<p>account in preparing their Bids, the Employer may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2. However, the time available to submit bids shall not be less than five (5) days since amendment in bidding document.</p>
<p><b>C. Preparation of Bids</b></p>	
9. Cost of Bidding	9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
10. Language of Bid	10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the language <b>specified in the BDS</b> . Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language <b>specified in the BDS</b> , in which case, for purposes of interpretation of the Bid, such translation shall govern.
11. Documents Comprising the Bid	<p>11.1 The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid containing the documents listed in ITB 11.2 and the other the Price Bid containing the documents listed in ITB 11.3, both envelopes enclosed together in an outer single envelope.</p> <p>11.2 The Technical Bid shall comprise the following:</p> <ul style="list-style-type: none"> <li>(a) Letter of Technical Bid;</li> <li>(b) Bid Security in accordance with ITB 19;</li> <li>(c) alternative Technical Bid, at Bidder's option and if permissible, in accordance with ITB 13;</li> <li>(d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;</li> <li>(e) documentary evidence in accordance with ITB 17, establishing the Bidder's qualifications to perform the contract;</li> <li>(f) Technical Proposal in accordance with ITB 16;</li> <li>(g) Bids submitted by a Joint Venture shall include a copy of the Joint Venture Agreement entered into by all partners. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all partners and submitted with the Bid, together with a copy of the proposed agreement. The Joint Venture agreement, or letter of intent to enter into a Joint Venture including a draft agreement shall indicate at least the parts of the Works to be executed by the respective partners; and</li> <li>(h) Any other documents, as specified in the <b>BDS</b>.</li> </ul> <p>11.3 The Price Bid shall comprise the following:</p> <ul style="list-style-type: none"> <li>(a) Letter of Price Bid;</li> <li>(b) completed Bill of Quantities(BoQ), in accordance with ITB 12 and ITB 14, or as stipulated in the BDS;</li> <li>(c) alternative price Bids, at Bidder's option and if permissible, in</li> </ul>

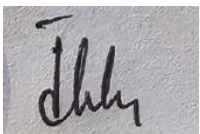



	<p>accordance with ITB 13;</p> <p>(d) Any other document required in the <b>BDS</b>.</p>
	<p>11.4 The Bidder is solely responsible for the authenticity of the submitted documents.</p> <p>11.5 The Technical Bid shall not include any financial information related to the Price Bid. A Technical Bid containing such material financial information shall be declared non-responsive.</p>
12. Letter of Bid and Schedules	12.1 The Letters of Technical Bid and Price Bid, Schedules, and all documents listed under ITB 11, shall be prepared using the relevant forms in Section IV (Bidding Forms) and in Section VII (Bill of Quantities). The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
13. Alternative Bids	<p>13.1 Unless otherwise <b>specified in the BDS</b>, alternative bids shall not be considered.</p> <p>13.2 When alternative times for completion are explicitly invited, a statement to that effect will be <b>included in the BDS</b>, as will the method of evaluating different times for completion.</p> <p>13.3 When specified in the BDS pursuant to ITB 13.1, and subject to ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the Bidding Document must first price the Employer's design as described in the Bidding Document and shall further provide all information necessary for a complete evaluation of the alternative by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the lowest evaluated Bidder conforming to the basic technical requirements shall be considered by the Employer.</p> <p>13.4 When <b>specified in the BDS</b>, Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be <b>identified in the BDS</b> and described in Section VI (Works Requirements). The method for their evaluation will be stipulated in Section III (Evaluation and Qualification Criteria).</p>
14. Bid Prices and Discounts	<p>14.1 The prices and discounts quoted by the Bidder in the Letter of Price Bid and in the Schedules shall conform to the requirements specified below.</p> <p>14.2 The Bidder shall submit a bid for the whole of the works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section VII (Bill of Quantities). In case of Unit Rate Contracts, the Bidder 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 the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.</p> <p>14.3 The price to be quoted in the Letter of Price Bid shall be the total price of the Bid, excluding any discounts offered. Absence of the total price in the Letter of Price Bid or the Bid Price in the Bill of Quantities shall result in rejection of the Bid.</p> <p>14.4 The Bidder shall quote any discounts and the methodology for their application in the Letter of Price Bid, in accordance with ITB 12.1.</p> <p>14.5 If so indicated in ITB 1.1 and ITB 35.4, bids are invited for individual Contracts or for any combination of Contracts (packages). Bidders wishing to offer any price reduction for the award of more than one Contract shall specify in their bid the</p>





	<p>price reductions applicable to each package, or alternatively, to individual Contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB 14.4, provided the Bids for all Contracts are submitted and opened at the same time.</p>
	<p>14.6 Unless otherwise <b>provided in the BDS</b> and the Conditions of Contract, the prices quoted by the Bidder shall be fixed. If the 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, the Bidder shall furnish the indices and weightings for the price adjustment formulae in the Table of Adjustment Data in Section IV (Bidding Forms) and the Employer may require the Bidder to justify its proposed indices and weightings.</p>
	<p>14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 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.</p>
15. Currency of Bid and Payment	15.1 The currency of the bid and payment shall be in Nepalese Rupees.
16. Documents Comprising the Technical Proposal	16.1 The Bidder shall furnish a Technical Proposal including a statement of work methods, statement demonstrating Bidder's experience in Environmental and Social risk management, equipment, personnel, schedule and any other information as stipulated in Section IV (Bidding Forms), in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.
17. Documents Establishing the Qualifications of the Bidder	17.1 To establish its qualifications to perform the Contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding information sheets included in Section IV (Bidding Forms).
18. Period of Validity of Bids	<p>18.1 Bids shall remain valid for the period <b>specified in the BDS</b> after the bid submission deadline date prescribed by the Employer. If the prescribed bid submission deadline date falls on a government holiday, then the next working day shall be considered as the bid submission deadline date. In such case the validity period of the bids shall be considered from the original bid submission deadline date. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.</p> <p>18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a bid security is requested in accordance with ITB 19, it shall also be extended 30 days beyond the deadline of the extended validity period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its Bid and to include any additional conditions against the provisions specified in Bid Documents.</p>
19. Bid Security	19.1 The Bidder shall furnish as part of its bid, in original form, a bid security as <b>specified in the BDS</b> . In case of e-submission of bid, the Bidder shall upload scanned copy of Bid security letter at the time of electronic submission of the bid. The Bidder



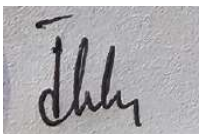
	<p>accepts that the scanned copy of the Bid security shall, for all purposes, be equal to the original. The details of original Bid Security and the scanned copy submitted with e-bid should be the same otherwise the bid shall be non-responsive.</p> <p>19.2 The bid security shall be, at the Bidder's option, in any of the following forms:</p> <ul style="list-style-type: none"> <li>(a) an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law or;</li> <li>(b) a cash deposit voucher in the Employer's Account as <b>specified in BDS</b>.</li> </ul> <p>In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section IV (Bidding Forms) or in another Form acceptable to the employer. The form must include the complete name of the Bidder. The bid security shall be valid for minimum thirty (30) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2.</p> <p>19.3 The bid security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.</p> <p>19.4 Any bid not accompanied by an enforceable and substantially compliant bid security shall be rejected by the Employer as nonresponsive. In case of e-Submission, if the scanned copy of an acceptable Bid Security letter is not uploaded with the electronic Bid then Bid shall be rejected.</p> <p>19.5 The bid security of unsuccessful Bidders shall be returned within three days, once the successful Bidder's furnishing of the required performance security and signing of the Contract Agreement pursuant to ITB 40.1 and 41.1</p> <p>19.6 The bid security shall be forfeited:</p> <ul style="list-style-type: none"> <li>(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid, except as provided in ITB 18.2; or</li> <li>(b) if the successful Bidder fails to <ul style="list-style-type: none"> <li>(i) furnish a performance security in accordance with ITB 40.1; or</li> <li>(ii) sign the Contract in accordance with ITB 41.1;</li> <li>(iii) accept arithmetical corrections in accordance with ITB 33.1;</li> </ul> </li> </ul> <p>19.7 The Bid Security of a Joint Venture shall be in the name of the Joint Venture that submits the bid. If the Joint Venture has not been legally constituted at the time of bidding, the Bid Security shall be in the names of all future partners as named in the letter of intent mentioned in ITB 4.1.</p>
<p>20. Format and Signing of Bid</p>	<p>20.1 The Bidder shall prepare one original set of the Technical Bid and one original of the Price Bid comprising the Bid as described in ITB 11 and clearly mark it <b>“ORIGINAL – TECHNICAL BID”</b> and <b>“ORIGINAL – PRICE BID.”</b> Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked <b>“ALTERNATIVE”</b>. In addition, the Bidder shall submit copies of the bid in the number specified in the BDS, and clearly mark each of them <b>“COPY.”</b> In the event of any discrepancy between the original and the copies, the original shall prevail.</p> <p>In case of e-submission of bid, the Bidder shall submit his bid electronically in PDF or web forms files as specified in ITB Clause 21.1(b).</p>



	<p>20.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as <b>specified in the BDS</b> and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid, except for un amended printed literature, shall be signed or initialed by the person signing the bid.</p>
	<p>20.3 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.</p>

**D. Submission and Opening of Bids**

21. Submission of Bids	<p>21.1 Bidders shall submit their bids by electronic or by mail/by hand/by courier <b>as specified in the BDS</b>. Procedures for submission, sealing and marking are as follows:</p> <p>(a) Bidders submitting bids by mail, by hand or by courier</p> <p>shall enclose the original of the Technical Bid, and the original of the Price Bid and each copy of the Technical Bid and Price Bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as <b>“ORIGINAL TECHNICAL BID”, “ORIGINAL – PRICE BID”, “ALTERNATIVE” and “COPY No. – TECHNICAL BID” and “COPY NO. PRICE BID”</b> These envelopes containing the original and the copies shall then be enclosed in one single envelope.</p> <p>(b) Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified in this clause.</p> <ol style="list-style-type: none"><li>i. The bidder is required to register in the e-GP system <a href="https://www.bolpatra.gov.np/egp">https://www.bolpatra.gov.np/egp</a> following the procedure specified in e-GP guideline.</li><li>ii. Interested bidders may either purchase the bidding document from the Employer's office as specified in the Invitation for Bid (IFB) or bidders may download the IFB and bidding document from e-GP system.</li><li>iii. The registered bidders need to maintain their profile data required during preparation of bids.</li><li>iv. In order to submit their bids the cost of the bidding document can be deposited as specified in IFB. In addition, electronic scanned copy (.pdf format) of the bank deposit voucher/cash receipt should also be submitted along with the technical bid.</li><li>v. The bidder can prepare their technical and price bids using data and documents maintained in bidder's profile and forms/format provided in bidding document by Employer. The bidder may submit bids as a single entity or as a joint venture. The bidder submitting bid in joint venture shall have to upload joint venture agreement along with partner(s) Bolpatra ID provided during bidder's registration.</li><li>vi. Bidders (all partners in case of JV) should update their profile data and documents required during preparation and submission of their technical bids.</li></ol>
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- vii. In case of bid submission in JV, the consent of the partners shall be obtained through the confirmation link sent to the registered email address and the partners shall have to acknowledge their confirmation.

**The required forms and documents shall be part of technical bids.**

No.	Document	Requirement	Remarks
1.	Letter of Technical Bid	Mandatory	PDF
2.	Bid Security/Bank Guarantee	Mandatory	PDF
3.	Company registration Certificate	Mandatory	PDF
4.	VAT registration Certificate	Mandatory (for domestic bidders only)	PDF
5.	Business Registration Certificate	Mandatory	PDF
6.	Tax Clearance Certificate/Tax return submission evidence/evidence of time extension	Mandatory (for domestic bidders only)	PDF
7.	Power of Attorney of Bid signatory	Mandatory	PDF
8.	Bank Voucher for cost of bid document	Mandatory	PDF
9.	Joint venture agreement or Letter of Intent to enter JV agreement	Mandatory in case of JV Bids Only	PDF
10.	Qualification Documents	Mandatory	Using profile data (financial details, contract details etc.) and Technical Proposal
11.	Additional documents] specified in ITB 11.2 (h)	Mandatory (If any)	PDF

**The required forms and documents shall be part of price bids.**

No.	Document	Requirement	Remarks
1.	Letter of Price Bid	Mandatory	PDF
2.	Completed Bill of Quantities (BoQ)	Mandatory	Online Forms
3.	Price Adjustment Table	Mandatory (If applicable)	Online Forms
4.	Additional Documents specified in ITB 11.3 (d)	Mandatory (If any)	PDF

**Note:**

- a) The documents specified as "Mandatory" should be included in e-submission and non-submission of the documents shall be considered as non-responsive bid.
- b) Bidders (all partners in case of JV) should verify/update their profile documents as appropriate for the specific bid before submitting their bid electronically.

- viii. After providing all the details and documents, two separate bid response documents i.e technical bids and price bids will be generated from the system. Bidders are advised to download and verify the response documents prior to bid submission.



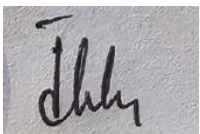
	<p>ix. For verifying the authentic user, the system will send one time password (OTP) in the registered e-mail address of the bidder. System will validate the OTP and allow bidder to submit their bid.</p> <p>x. Electronically submitted bids can be modified and/or withdrawn through system. The bidder may modify their bids multiple times online within bid submission date and time specified in e-GP system. Once a Bid is withdrawn, bidder won't be able to submit another bid response for the same bid.</p> <p>xi. The Bidder / Bid shall meet the following requirements and conditions for e-submission of bids;</p> <p>aa) The e-submitted bids must be readable through PDF reader.</p> <p>bb) The facility for submission of bid electronically through e-submission is to promote transparency, non-discrimination, equality of access, and open competition in the bidding process. The Bidders are fully responsible to use the e- submission facility properly in e-GP system as per specified procedures and in no case the Employer shall be held liable for Bidder's inability to use this facility.</p> <p>cc) When a bidder submits electronic bid through the PPMO e-GP portal, it is assumed that the bidder has prepared the bid by studying and examining the complete set of the Bidding documents including specifications, drawings and conditions of contract.</p> <p>21.2. The inner and outer envelopes shall:</p> <p>(aa) bear the name and address of the Bidder;</p> <p>(bb) be addressed to the Employer as provided in BDS 22.1;</p> <p>(cc) bear the specific identification of this bidding process indicated in BDS 1.1; and</p> <p>21.3 The outer envelope and the inner envelope containing Technical Proposal shall bear a warning not to open before the time and date for the opening of Technical Bid in accordance with ITB 25.1.</p> <p>21.4 The inner envelope containing the Price Bid shall bear a warning not to open until advised by the Employer in accordance with ITB 25.7</p> <p>21.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the bid.</p>
<p>22. Deadline for Submission of Bids</p>	<p>22.1 Bids must be received by the Employer at the address and no later than the date and time indicated <b>in the BDS</b>.</p> <p>In case of e-submission, the standard time for e-submission is Nepal Standard Time as set out in the server. The e-procurement system will accept the e-submission of bid from the date of publishing of notice and will automatically not allow the e-submission of bid after the deadline for submission of bid.</p> <p>22.2 The Employer may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document in accordance with ITB 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.</p>
<p>23. Late Bids</p>	<p>23.1 The Employer shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB 22. Any bid received by the Employer after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder. In case of e-submission, PPMO's e-GP</p>

	system will not allow submission of bid after the deadline for submission of bid.
24. Withdrawal, and Modification of Bids	<p>24.1 A Bidder may withdraw, or modify its bid- Technical or Price - after it has been submitted either in hard copy or by e-submission. Once a Bid is withdrawn, bidder shall not be able to submit another bid for this bidding process. Procedures for withdrawal or modification of submitted bids are as follows:</p> <p>(i) Bids submitted in Hard Copy A Bidder may withdraw or modify its Bid – Technical or Price – after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 20.2, (except that withdrawal notices do not require copies). The corresponding modification of the Bid must accompany the respective written notice. All notices must be</p> <ul style="list-style-type: none"> <li>i) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” and “MODIFICATION;” and</li> <li>ii) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.</li> </ul> <p>ii) E-submitted bids.</p> <ul style="list-style-type: none"> <li>a) Bidder may submit modification or withdrawal prior to the deadline prescribed for submission of bids through e-GP system by using the forms and instructions provided by the system.</li> </ul>
	24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall not be opened. In case of hard copy submission, the Bid will be returned unopened to the Bidders.
	24.3 No Bid may be withdrawn or modified in the interval between the deadline for submission of Bids and the expiration of the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid or any extension thereof.
	24.6 Request for withdrawal or modification must be made through the same medium of submission. Request for withdrawal or modifications through different medium shall not be considered.
25. Bid Opening	<p>25.1 The Employer shall open the Technical Bids in public at the address, on the date and time <b>specified in the BDS</b> in the presence of Bidders` designated representatives who choose to attend. The Price Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening. If the Technical Bid and Price Bid are submitted together in one envelope, the Employer shall reject the entire Bid.</p>
	25.2 The Employer shall download the e-submitted Technical Bid. The e-GP system allows the Employer to download the e-submitted technical bid only after bid opening date and time after login simultaneously by at least two members of the Bid Opening Committee.
	25.3 Electronically submitted Technical Bid shall be opened at first in the same time and date as specified above. Electronic Bids shall be opened one by one and read out. The e-submitted technical bids must be readable through open standards interfaces. Unreadable and or partially submitted bid files shall be considered incomplete.
	25.4 Thereafter, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be Permitted unless the corresponding

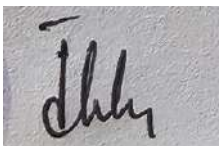




	<p>withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked “MODIFICATION” shall be opened and read out with the corresponding bid. No Technical Bid and/or Price Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out and recorded at bid opening. Only the Technical Bid, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Bids, both Original and Modification, will remain unopened in accordance with ITB 25.1.</p>
	<p>25.5 All other envelopes holding the Technical Bid shall be opened one at a time, reading out: the name of the Bidder; whether there is a modification; the presence of a bid security and any other details as the Employer may consider appropriate. Only Technical Bids read out and recorded at bid opening shall be considered for evaluation. No bid shall be rejected at opening of Technical Bids except for late bids, in accordance with ITB 23.1.</p>
	<p>25.6 The Employer shall prepare a record of the opening of Technical Bids that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, or modification; and the presence or absence of a bid security. The Bidders’ representatives who are present shall be requested to sign the record. The omission of a Bidder’s signature on the record shall not invalidate the contents and effect of the record.</p>
	<p>25.7 At the end of the evaluation of the Technical Bids, the Employer will invite bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Employer. Bidders shall be given at least 7 days’ notice for the opening of Price Bids.</p>
	<p>25.8 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being substantially nonresponsive to the requirements of the Bidding Document and return their Price Bids unopened.</p>
	<p>25.9 The Employer shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, in the presence of Bidders’ representatives who choose to attend at the address, on the date, and time specified by the Employer. The Bidder’s representatives who are present shall be requested to sign a register evidencing their attendance.</p>
	<p>25.10 All envelopes containing Price Bids shall be opened one at a time and the following read out and recorded:</p> <ul style="list-style-type: none"><li>(a) the name of the Bidder;</li><li>(b) whether there is a modification;</li><li>(c) the Bid Prices, including any discounts and alternative offers; and</li><li>(d) any other details as the Employer may consider appropriate.</li></ul> <p>Only Price Bids, discounts, modifications, and alternative offers read out and recorded during the opening of Price Bids shall be considered for evaluation. No Bid shall be rejected at the opening of Price Bids.</p>

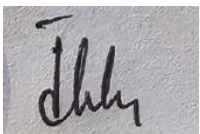


	<p>25.11 The Employer shall prepare a record of the opening of Price Bids that shall include, as a minimum, the name of the Bidder, the Bid Price (per lot if applicable), any discounts, modifications and alternative offers. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record.</p>
<p><b>E. Evaluation and Comparison of Bids</b></p>	
<p>26. Confidentiality</p>	<p>26.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids and recommendation of Contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders.</p>
	<p>26.2 Any attempt by a Bidder to influence the Employer in the evaluation of the bids or Contract award decisions may result in the rejection of its bid.</p>
	<p>26.3 Notwithstanding ITB 26.2, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it may do so in writing.</p>
<p>27. Clarification of Bids</p>	<p>27.1 To assist in the examination, evaluation, and comparison of the Technical and Price Bids, the Employer may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing. No change in the substance of the Technical Bid or prices in the Price Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Price Bids, in accordance with ITB 33. In case of e-submission of bid, upon notification from the employer, the bidder shall also submit the original of documents comprising the Technical and Price Bid as per ITB 11.2 and ITB 11.3 for verification of submitted documents for acceptance of the e-submitted bid.</p>
	<p>27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.</p>
<p>28. Deviations, Reservations, and Omissions</p>	<p>28.1 During the evaluation of bids, the following definitions apply:</p> <ul style="list-style-type: none"> <li>(a) "Deviation" is a departure from the requirements specified in the Bidding Document;</li> <li>(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and</li> <li>(c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.</li> </ul>
<p>29. Examination of Technical Bid</p>	<p>29.1 The Employer shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB 11.2 have been submitted. If any of these documents or information (except alternative Technical Bid which is optional) is missing, the bid shall be rejected.</p>
	<p>29.2 In case of e-submission bids, the Employer shall confirm that all the documents and information requested in ITB 21.1 have been submitted. If any of these</p>





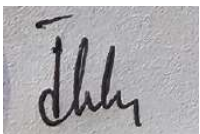

	documents or information is missing, the bid shall be rejected.
30. Determination of Responsiveness of Technical Bid	30.1 The Employer's determination of a Bid's responsiveness is to be based on the contents of the bid itself, as defined in ITB11.2.
	30.2 A substantially responsive Technical Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, <ul style="list-style-type: none"> <li>(a) if accepted, would: <ul style="list-style-type: none"> <li>(i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract;</li> <li>or</li> <li>(ii) limit in any substantial way, inconsistent with the Bidding Document, the Employer's rights or the Bidder's obligations under the proposed Contract; or</li> </ul> </li> <li>(b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.</li> </ul>
	30.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 16, Technical Proposal, in particular, to confirm that all requirements of Section VI (Works Requirements) have been met without any material deviation, reservation or omission.
	30.4 If a bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.
	30.5 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 27.1, the bid shall not be considered for further evaluation.
	30.7 Except in case of e-submission, the Financial Bid of the bidder, which is evaluated as substantially non-responsive in technical bid, shall be returned to the respective bidders.
31. Non-conformities Errors, and Omissions	31.1 Provided that a bid is substantially responsive, the Employer may waive any non-conformities in the bid that do not constitute a material deviation, reservation, or omission.
	31.2 Provided that a Technical Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request may result in the rejection of its bid.
	31.3 Provided that a Technical Bid is substantially responsive, the Employer shall



	<p>rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the methods indicated in Section III (Evaluation and Qualification Criteria).</p> <p>31.4 If the monetary value of such non-conformities is found to be more than fifteen percent of the Bid Price of the bidder pursuant to ITB 31.3, such bid shall be considered nonresponsive and shall not be involved in evaluation.</p>
<p>32 Qualification of the Bidder</p>	<p>32.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether Bidders meet the qualifying criteria specified in Section III (Evaluation and Qualification Criteria) including their contractual SEA/SH prevention and response obligations.</p> <p>32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17.1.</p> <p>32.3 An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. A negative determination shall result into the disqualification of the Bid, in which event the Employer shall return the unopened Price Bid to the Bidder.</p>
<p>33. Correction of Arithmetical Errors</p>	<p>33.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis:</p> <ul style="list-style-type: none"> <li>(a) only for unit price Contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;</li> <li>(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected;</li> <li>(c) If there is a discrepancy between the bid price in the Summary of Bill of Quantities and the bid amount in item (c) of the Letter of Price Bid, the bid price in the Summary of Bill of Quantities will prevail and the bid amount in item (c) of the Letter of Price Bid will be corrected.</li> <li>(d) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a), (b) and (c) above.</li> </ul> <p>33.2 If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited.</p>
<p>34 Subcontractors</p>	<p>34.1 In case of Prequalification, the Bidder's Bid shall name the same subcontractor as submitted in the prequalification application and approved by the Employer.</p> <p>In case of Post-qualification, the Employer may permit subcontracting for certain specialized works as indicated in Section III When subcontracting is permitted by the Employer, the sub-contractor shall meet the qualifications criteria as indicated in section III.</p> <p>Sub-contractors' qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the</p>



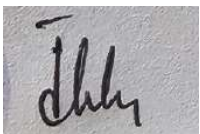
	<p>qualification criteria.</p> <p>Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as <b>specified in the BDS</b>.</p>
<p>35. Evaluation of Price Bids</p>	<p>35.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.</p>
	<p>35.2 To evaluate a Price Bid, the Employer shall consider the following:</p> <ul style="list-style-type: none"> <li>(a) the bid price, excluding Value Added Tax , Provisional Sums, and the provision, if any, for contingencies in the Summary Bill of Quantities, for Unit Rate Contracts, or Schedule of Prices for lump sum Contracts, but including Day work items, where priced competitively;</li> <li>(b) adjustment for correction of arithmetic errors in accordance with ITB 33.1;</li> <li>(c) adjustment due to discounts offered in accordance with ITB 14.4;</li> <li>(d) adjustment for nonconformities in accordance with ITB 31.3;</li> <li>(e) application of all the evaluation factors indicated in Section III (Evaluation and Qualification Criteria);</li> </ul>
	<p>35.3 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 taken into account in bid evaluation.</p>
	<p>35.4 If this Bidding Document allows Bidders to quote separate prices for different lots (Contracts), and to award multiple Contracts to a single Bidder <b>as specified in BDS</b>, the methodology to determine the lowest evaluated price of the Contract combinations, including any discounts offered in the Letter of Price Bid, is specified in Section III (Evaluation and Qualification Criteria).</p>
	<p>35.5 if the bid for an Unit Rate Contract, which results in the lowest Evaluated Bid Price is seriously unbalanced or front loaded <b>or extremely low</b> in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analysis 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 analysis, 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 as <b>mentioned in BDS</b> to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract <b>or may consider the bid as non-responsive</b>.</p>
	<p>35.6 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 27.1, the bid shall not be considered for further evaluation.</p>



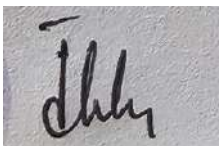

36. Comparison of Bids	36.1 The Employer shall compare all substantially responsive bids in accordance with ITB 35.2 to determine the lowest evaluated bid.
37. Employer's Right to Accept Any Bid, and to Reject Any or All Bids	37.1 The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all Bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.
<b>F. Award of Contract</b>	
38. Award Criteria	38.1 The Employer shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
39. Letter of Intent to Award the Contract/Notification of Award	39.1 The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 38.1 within seven days of the selection of the bid, in writing that the Employer has intention to accept its bid and the information regarding the name, address and amount of selected bidder shall be given to all other bidders who submitted the bid.
	39.3 If no bidder submits an application within a period of seven days of the notice provided under ITB 39.1, the Employer shall, accept the bid selected in accordance with ITB 38.1 and Letter of Acceptance shall be communicated to the selected bidder prior to the expiration of period of Bid validity, to furnish the performance security and sign the contract within fifteen days.
40. Performance Security and Line of Credit	40.1 Within Fifteen (15) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security in accordance with the General Conditions of Contract, subject to ITB 35.5, and <b>if required in the BDS</b> , the Environmental and Social (ES) Performance Security from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal using Sample Form for the Performance Security included in Section X (Contract Forms), or another form acceptable to the Employer. The performance security and, if applicable ES performance Security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.
	40.2 Failure of the successful Bidder to submit the above-mentioned Performance Security and, if required pursuant to ITB 40.1, the Environmental and Social (ES) performance Security, or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security. In that event the Employer may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily. The process shall be repeated according to ITB 39.
41 Signing of Contract	41.1 The Employer and the successful Bidder shall sign the Contract Agreement within the period as stated ITB 40.1.
	41.2 At the same time, the Employer shall also notify all other Bidders of the results of the bidding, and shall publish in an English/Nepali language newspaper or well-known and freely accessible website the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at Bid Opening; (iii) name and evaluated prices of each Bid; (iv) name of bidders whose bids were rejected and the reasons for their



	rejection; and (v) name of the winning Bidder, and the Price it offered, as well as the duration and summary scope of the Contract awarded.
42. Complaint and Review	42.1 If a Bidder is dissatisfied with the Procurement proceedings or the decision made by the Employer in opening of the price bid or the intention to award the Contract, it may file an application to the Chief of the Public Entity within Seven (7) days of providing the notice under ITB 25.8 and ITB 39.1 by the Public Entity, for review of the proceedings stating the factual and legal grounds.
	42.2 Late application filed after the deadline pursuant to ITB 42.1 shall not be processed.
	42.3 The chief of Public Entity shall, within five (5) days after receiving the application, give its decision with reasons, in writing pursuant to ITB 42.1:  (a) whether to suspend the procurement proceeding and indicate the procedure to be adopted for further proceedings; or  (b) to reject the application.  The decision of the chief of Public Entity shall be final for the Bid amount up to the value as stated in 42.4.
	42.4 If the Bidder is not satisfied with the decision of the Public Entity in accordance with ITB 42.3, or the decision is not given within five (5) days of receipt of application pursuant to ITB 42.1, it can, within seven (7) days of receipt of such decision, file an application to the Review Committee of the GoN, stating the reason of its disagreement on the decision of the chief of Public Entity and furnishing the relevant documents, provided that its Bid amount ,equal or more than Rupees Twenty Million (NRs. 20,000,000). The application may be sent by hand, by post, by courier, or by electronic media at the risk of the Bidder itself.
	42.5 Late application filed after the deadline pursuant to ITB 42.4 shall not be processed.
	42.6 Within three (3) days of the receipt of application from the Bidder, pursuant to ITB 42.4, the Review Committee shall notify the concerning Public Entity to furnish its procurement proceedings, pursuant to ITB 42.3.
	42.7 Within three (3) days of receipt of the notification pursuant to ITB 42.6, the Public Entity shall furnish the copy of the related documents to the Review Committee.
	42.8 The Review Committee, after inquiring from the Bidder and the Public Entity, if needed, shall give its decision within one (1) month of the receipt of the application filed by the Bidder, pursuant to ITB 42.4.
	42.9 The Bidder, filing application pursuant to ITB 42.4, shall have to furnish a cash amount or Bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law equivalent to ten percent (10 %) of amount of bid security in case of complaint against decision pursuant to ITB 25.8 and one percent (1%) of its quoted Bid amount in case of complaint against decision pursuant to ITB 39.1 with the validity period of at least ninety (90) days from the date of the filing of application pursuant to ITB 42.4.



	42.10 If the claim made by the Bidder pursuant to ITB 42.4 is justified, the Review Committee shall have to return the security deposit to the applicant, pursuant to ITB 42.9, within seven (7) days of such decision made.
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## Section II: Bid Data Sheet

This section consists of provisions that are specific to each procurement and supplement the information or requirements included in Section I. Instructions to Bidders.

A. General	
ITB 1.1	The number of the Invitation for Bids is: <i>NP-DUDBC-400272-CW-RFB</i>
ITB 1.1	The Employer is: <b>Mechinagar Municipality, Office of Municipal Executive, Koshi Province</b>
ITB 1.1	The number and identification of lots (contracts) comprising this bidding process is: <i>None</i>
ITB 2.1	The name of the Project is: <b>Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380)</b> The DP is: <b>The World Bank</b> The implementing agency is: <b>Nepal Urban Governance and Infrastructure Project, Mechinagar Municipality.</b> Funding Agency is: <b>The World Bank</b>
ITB 4.1 (a)	Maximum number of partner in a joint venture shall be : <b>3 (three)</b>
ITB 4.4	A list of debarred firms and individuals is available on the World Bank's external website: <a href="http://www.worldbank.org/debarr">http://www.worldbank.org/debarr</a> .
B. Bidding Document	
ITB 7.1	For clarification purposes only, the Employer's address is: Attention: Mr. Tek Kumar Regmi, Chief Administrative officer, <b>Mechinagar Municipality, Office of Municipal Executive</b> Address: <b>Itabhatta, Jhapa district, Koshi Province</b> Telephone: +977-23-562437/562505 Facsimile number: +977-23-562437 Electronic mail address: Email address: <a href="mailto:ito.mechinagarmun@gmail.com">ito.mechinagarmun@gmail.com</a> Web page: <a href="mailto:mechinagarmun@gmail.com">mechinagarmun@gmail.com</a>
ITB 7.4	A Pre-Bid meeting <i>shall</i> be held at 11:00 hours 29 <sup>th</sup> January 2024 Place: Mechinagar Municipality, Itabhatta chowk . A site visit " <i>shall not be</i> " organized by the Employer.
ITB 7.5	Time for request: Requests for clarification should be received by the Employer no later than <b>10 days</b> prior to the deadline for submission of bids.
C. Preparation of Bids	



ITB 10.1	The language of the bid is: <b>English</b>
ITB 11.2 (h)	<p>The Bidder shall submit with its Technical Bid the following additional documents: <i>[generic contents are provided in Section IV]</i></p> <p>(a)</p> <p><b>Code of Conduct including SEA/SH for Workers and Personnel:</b> The Bidder shall submit its Code of Conduct that will apply to the personnel of the Contractor and sub-contractors to ensure compliance with the Contractor’s Environmental, Social, Health and Safety (ESHS) obligations under the Contract. The Bidder shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to consider specific Contract issues/risks. In addition, the Bidder shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.</p> <p><b>The Contractor shall be required to implement the agreed Code of Conduct to its personnel and Sub-contractors.</b></p> <p>(b) <b>Contractor’s Environmental and Social Management Plan (C-ESMP) based on the approved ESIA, ESMF, RF, SEP, LMP and other instruments</b></p> <p>The Bidders shall be required to submit as a part of the Bid a C-ESMP. Later during contract execution, this document shall be further elaborated and submitted for approval, and subsequent implementation in accordance with the SCC 48.7, that includes the agreed Management Strategies and Implementation Plans.</p> <p>Assessment of ESHS compliances including SEA/SH Prevention and Action plan, OCHS and Labor camp standards shall be carried out on a bi-monthly basis by safeguards implementation monitoring team of the Employer. SEA/SH Prevention and Response Action Plan” means a document which outlines how the project will put in place the necessary actions, protocols and mechanisms to address SEA/SH risks; and how to address any SEA/SH allegations that may arise.</p>
ITB 11.3 (b)	In accordance with ITB 12 and ITB 14, the following schedules shall be submitted with the bid, including the priced Bill of Quantities for Unit Rate Contracts and Schedule of Prices for lump sum contracts: <b>Not Applicable</b>
11.3 (d)	The Bidder shall submit with its Price Bid the following additional documents: <b>None</b>
ITB 13.1	Alternative bids “ <i>shall not be</i> ” permitted.
ITB 13.2	Alternative times for completion “ <i>shall not be</i> ” permitted.
ITB 13.4	Alternative technical solutions shall be permitted for the following parts of the Works: Not Applicable
ITB 14.6	<p>The prices quoted by the Bidder <i>shall be</i> subject to adjustment during the performance of the Contract.</p> <p><i>“Bidder shall submit the Table of Price Adjustment Data as a part of price bid.”</i></p>
ITB 18.1	The bid shall be valid until: 10 <sup>th</sup> May 2024
ITB 19.1	The Bidder shall furnish a bid security, from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law with a minimum of <b>NRs. 10,500,000.00</b> which shall be valid until 9 <sup>th</sup> June 2024
ITB 19.2 (b)	Employer’s Account:







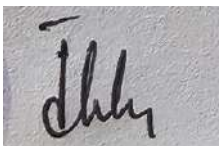
मि. प्रमुख प्रशासकीय अधिकारी  
मेचिन्द्र नगरपालिका

	Name of the Bank: <i>Nepal Bank Limited</i> Branch: <i>kakerbhitta Branch, Mechinagar Municipality</i> Name of the Office: <i>Mechinagar Municipality, Office of Municipal Executive, Koshi Province</i> Office Account No.: 10603000001001000001
ITB 20.1	In addition to the original of the bid, the number of copy/ies is/are: <b>"Not Applicable"</b>
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall indicate:  (a) The name and description of the documentation required to demonstrate the authority of the signatory to sign the Bid such as a Power of Attorney; and  (b) In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.
<b>D. Submission and Opening of Bids</b>	
ITB 21.1	Bidders shall have the option of submitting their bids: <b>By electronic submission only</b>
ITB 22.1	For bid submission purposes only, the Employer's address is: Attention: Chief Administrative Officer Mechinagar Municipality, Office of Municipal Executive Koshi Province Street Address: Itabhata, Jhapa, Koshi province Floor/ Room number: Not applicable City: Itabhata Chowk, Mechinagar, Koshi province ZIP/Postal Code: Not applicable Country: Nepal The deadline for Bid submission is: Date: 9 <sup>th</sup> February 2024 Time: 12:00 hours
ITB 25.1	The Technical Bid opening shall take place at: Address: Mechinagar Municipality Office of Municipal Executive, Koshi Province Date :9 <sup>th</sup> February 2024 Time : 13:00 hours
<b>E. Evaluation and Comparison of Bids</b>	
ITB 34.1	a) Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is:

*Jhapa*



	<p><b>25% of the total contract amount.</b></p> <p>b) Sub-contractors' qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the qualification criteria.</p>
ITB 35.4	Bidders are " <i>permitted</i> " to quote separate prices for lots (Contracts), and a single Bidder will be awarded multiple lots (Contracts) based on provision of <i>Paragraph 1.2, Multiple Contracts Section III (Evaluation and Qualification Criteria): Not Applicable</i>
ITB 35.5	The amount of the performance security be increased by <b>Eight (8)</b> percent of the quoted bid price.
ITB 40.1	<p><b>The performance security amount shall be:</b> 5% of Bid Price</p> <p><b>Environmental and Social (ES) Performance Security shall be:</b> "<i>Not Applicable</i>"</p>






## Section III: Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders by post-qualification exercise. GoN/DP requires bidders to be qualified by meeting predefined, precise minimum requirements. The method sets pass-fail criteria, which, if not met by the bidder, results in disqualification. In accordance with ITB 32 and ITB 35, no other methods, criteria and factors shall be used. The Bidder shall provide all the information requested in the forms included in Section IV (Bidding Forms).

### 1. Evaluation

In addition to the criteria listed in ITB 35.2 (a) - (e) the following criteria shall apply:

Note:

Use the evaluation criteria listed below as appropriate and required for the project.

#### 1.1 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity, to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section VI (Works Requirements).

Non-compliance with equipment and personnel requirements described in Section VI (Works Requirements) shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.

#### 1.2 Multiple Contracts

**Multiple Contracts**, if permitted under ITB 35.4, will be evaluated as follows: **Not Applicable**

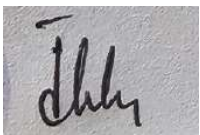
**Award Criteria for Multiple Contracts [ITB 35.4]: Not Applicable**

Bidders have the option to Bid for any one or more Contracts. Bids will be evaluated taking into account discounts offered, if any, for combined contracts. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for combined contracts, subject to the selected Bidder(s) meeting the required qualification criteria for combination of multiple contracts as the case may be.

**Qualification Criteria for Multiple Contracts: Not Applicable**

The criteria for qualification shall be the sum of the minimum requirements for respective individual contracts as specified under items 2.3.2, 2.3.3, 2.3.4 and 2.4.2 b.

With respect to the **Contracts of Similar Size and Nature** under item 2.4.2(a) of Section III, the



evaluation shall be done as below:

N is the minimum number of contracts required as per Specific Construction Experience (2.4.2(a)).

V is the minimum value of a single contract as per Note (2), or (3) of 2.4.2 Specific Construction Experience.

- i. Minimum requirements for combined contract(s) shall be the aggregate requirements for each contract for which the bidder has submitted bids as follows, and N1, N2, N3, etc. shall be different contracts:

Contract 1: N1 contracts, each of minimum value V1;

Contract 2: N2 contracts, each of minimum value V2;

Contract 3: N3 contracts, each of minimum value V3;

---etc.

**Or**

- ii. Total number of contracts is equal or less than  $N1 + N2 + N3$  --but the total value of all such contracts is equal or more than  $N1 \times V1 + N2 \times V2 + N3 \times V3$  +---

### 1.3 In Case, other than Multiple Contracts: Not Applicable

Bidders have the option to Bid for any one or more Contracts. The contracts will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer, subject to the selected Bidder(s) meeting the required qualification which shall be the sum of the minimum requirements for respective individual contracts. Under this case, Contract shall be awarded based on Least Cost Combination to the Employer.

### 1.4 Completion Time:

An alternative Completion Time, if permitted under ITB 13.2, will be evaluated as follows:

*Not Applicable*

### 1.5 Alternative Technical Solutions

Alternative technical solutions, if permitted under ITB 13.4, will be evaluated as follows:

*Not Applicable*

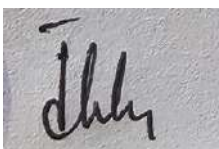
### 1.6 Quantifiable Nonconformities and Omissions

Subject to ITB 14.2 and ITB 35.2, the evaluated cost of quantifiable nonconformities including omissions, is determined as follows:

## 2. Qualification

### 2.1 Eligibility

Criteria	Compliance Requirements	Documents
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Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
<b>2.1.1 Nationality</b>					
Nationality in accordance with ITB sub-clause 4.2	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid Forms ELI -1; ELI - 2 with attachments
<b>2.1.2 Conflict of Interest</b>					
No conflicts of interest in accordance with ITB Sub-Clause 4.3.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
<b>2.1.3 Government/ DP Eligibility</b>					
Not having been declared ineligible by government /DP, as described in ITB Sub-Clause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
<b>2.1.4 Government-owned Entity</b>					
Bidder required to meet conditions of ITB Sub-Clause 4.5.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Forms ELI - 1, ELI - 2, with attachments
<b>2.1.5 UN Eligibility</b>					
Not having been declared ineligible based on a United Nations resolution or Employer's country law, as described in ITB Sub-Clause 4.8.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
<b>2.1.6 Bidder's Running Contracts</b>					
Not Applicable					
<b>2.1.7 Other Eligibility</b>					
Firm Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment

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Business Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
VAT and PAN Registration certificate ( <i>only for domestic bidders</i> )	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Tax Clearance Certificate/Tax return submission evidence <b>F/Y2078/79</b> and evidence of time extension for the <b>F/Y 2079/80</b> ( <i>Only for domestic bidders</i> )	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Additional requirements <i>NA</i>	NA	NA	NA	NA	NA

## 2.2 Pending Litigation

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	

### 2.2.1 Pending Litigation

All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than 50 percent of the Bidder's net worth.	must meet requirement by itself or as partner to past or existing JV	not applicable	must meet requirement by itself or as partner to past or existing JV	not applicable	Form LIT - 1
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## 2.3 Financial Situation

Criteria	Compliance Requirements	Documents
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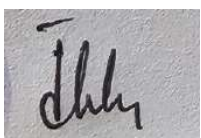




Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
<b>2.3.1 Historical Financial Performance</b>					
Submission of audited balance sheets and income statements, for the last 5 years to demonstrate the current soundness of the Bidder's financial position. As a minimum, a Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive.	must meet requirement	not applicable	must meet requirement	not applicable	Form FIN - 1 with attachments

<b>2.3.2 Average Annual Construction Turnover</b>					
Minimum average annual construction turnover of <b>NRs 503,000,000.00</b> calculated as total certified payments received for construction contracts in progress or completed, within the last five fiscal years.	must meet requirement	must meet requirement	must meet 25 percent of the requirement	must meet 40 percent of the requirement	Form FIN -2

<b>2.3.3 Financial Resources</b>					
Using Forms FIN - 3 and FIN - 4 in Section IV (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets <sup>2</sup> , unencumbered real assets, and other financial resources, (other than any contractual advance payments) to meet the cash-flow requirement of NRs. <b>83,800,000.00</b>	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 3



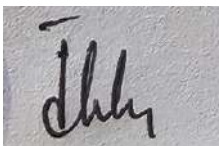
<b>2.3.4 Required Bid Capacity</b>					
The bidding capacity of the bidder should be equal to or more than the NRs <b>372,000,000.00</b>	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 4 and Form FIN - 5

## 2.4 Experience

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirement
		All Partners Combined	Each Partner	Lead Partner	
<b>2.4.1 General Construction Experience</b>					
Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last 5 (five) years prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP - 1

<b>2.4.2 Specific Construction Experience</b>					
<b>(a) Contracts of Similar Size and Nature</b>					
Participation as Prime contractor, joint venture member management contractor, or subcontractor, in at least One (1) Contract within the last ten (10) years, with a value of at least NRs <b>335,100,000.00</b> that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section VI, Works Requirements.	must meet requirement	not applicable	at least one Contract within the last ten (10) years with a value of at least NRs <b>251,300,000.00</b> that have been successfully or are substantially completed and that are similar to the proposed works	must meet requirement	Form EXP - 2(a)

<b>(b) Construction Experience in Key Activities</b>
--






For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum construction experience in the following key activities:	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)
(i) Bidder should have completed at least 1760.00 m <sup>3</sup> of Asphalt concrete pavement works within any one year	must meet all requirements	must meet all requirements	not applicable	not applicable	
<b>(c) Specific Experience in managing ES aspects</b>					
For the contracts in 4.2 (a) above and/or any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or Subcontractor within the last ten (10) years, experience in managing ES risks and impacts in the following aspects: developed and substantially implemented (50% of Works and/ or completed ESMP/ C-ESMP on road construction/ improvement contracts of contract value <b>NRs. 210,000,000.00</b>	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(c)

## 2.7 Subcontractors

The experience and financial capacity of the sub-contractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.

The sub-contractors proposed shall be fully qualified for their work proposed, and meet the following criteria:

2.7 (a) Nature of Works that can be sub contracted: **Not Applicable**

## Section IV: Bidding Forms

This Section contains the forms which are to be completed by the Bidder and submitted as part of its Bid.

A square stamp containing a handwritten signature in black ink, appearing to read "J. H. L.".



## Letter of Technical Bid

The Bidder must accomplish the Letter of Bid in its letter head clearly showing the Bidder's complete name and address.

Date: .....

Name of the contract: .....

Invitation for Bid No.: .....

To:.....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8.
- (b) We offer to execute in conformity with the Bidding Documents the following Works:
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of *[insert validity period as specified in ITB 18.1 of the BDS]* days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (d) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries in accordance with ITB 4.2 and meet the requirements of ITB 3.4 & 3.5
- (e) We are not participating, as a Bidder or as a subcontractor, in more than one Bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers submitted in accordance with ITB 13.
- (f) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by the World Bank, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;
- (g) We are not a government owned entity/We are a government owned entity but meet the requirements of ITB 4.5;¹
- (h) We declare that, we including any subcontractors or suppliers for any part of the contract do not have any conflict of interest in accordance with ITB 4.3 and we have not been punished for an offense relating to the concerned profession or business.
- (i) We declare that we are solely responsible for the authenticity of the documents submitted by us. The document and information submitted by us are true and correct. If any document/information given is found to be concealed at a later date, we shall accept any legal actions by the Employer.
- (j) We agree to permit the Employer/the World Bank or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Employer.
- (k) If our Bid is accepted, we commit to mobilizing key equipment and personnel in accordance with the



requirements set forth in Section VI (Works Requirement) and our technical proposal, or as otherwise agreed with the Employer.

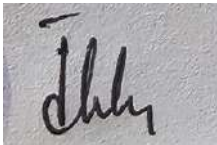
Name: .....

In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

A square image containing a handwritten signature in black ink on a light-colored background.



# Letter of Price Bid

**The Bidder must accomplish the Letter of Bid in its letterhead clearly showing the Bidder's complete name and address.**

Date: .....

Name of the contract: .....

Invitation for Bid No.: .....

To:.....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8;
- (b) We offer to execute in conformity with the Bidding Documents the following Works:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is: [Insert one of the options below as appropriate] or when left blank is the Bid Price indicated in the Bill of Quantities

Option 1, in case of single contract: Total price is: [insert the total price of the Bid in words and figures];

Or

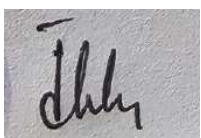
Option 2, in case of multiple lots (contracts): (i) Total price of each lot (contracts): [insert the total price of each lot in words and figures]; (ii) Total price of subject contract [say Lot1] and Lot2 [another contract] [insert the total price in words and figures]; (iii) Total price of subject contract [say Lot1] and Lot3 [another contract] [insert the total price in words and figures]; Total price of subject contract [say Lot1], Lot2 [another contract], Lot3 [another contract], .....[insert the total price in words and figures];

(d) The discounts offered and the methodology for their application for subject contract [single contract] are:..... [For Bidding Documents not provisioning multiple contracts]

Add following if Bidding Document provisions applicability of multiple contracts:

The discounts offered and the methodology for their application for subject contract [say Lot1] and Lot2 [another contract] are:.....

The discounts offered and the methodology for their application for subject contract [say Lot1] and Lot3 [another contract] are:.....



The discounts offered and the methodology for their application for subject contract [say Lot1], Lot2 [another contract] and Lot3 [another contract],....., are:.....

[Note:

1. Formulate possible combinations depending upon the number of lots under Bidding Process and modify accordingly Paragraph (c) and (d)]

(e) Our bid shall be valid until *[insert date of validity as specified in ITB 18.1]* in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(f) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document;

(g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract:<sup>3</sup>

Name of Recipient	Address	Reason	Amount
.....	.....	.....	.....
.....	.....	.....	.....

(h) We understand that this bid, *together with your written acceptance thereof* included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;

(i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive; and

(j) We declare that we are solely responsible for the authenticity of the documents submitted by us.

(k) We agree to permit the Employer/the World Bank or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Employer.

Name: .....

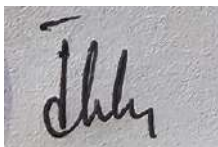
In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

<sup>3</sup> If none has been paid or is to be paid, indicate "None".





## Table of Price Adjustment Data<sup>4</sup>

[To be used if Price Adjustment is applicable as per GCC 53.1]

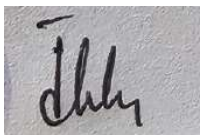
Code	Index Description	Source of Index*	Base Value and Date	Employer's Proposed Weighting Range (coefficient)	Bidder's Proposed Weighting (coefficient)**
1	2	3	4	5	6
	Non - Adjustable (A)			0.15	0.15
	Labor (b)				
	Materials (c)				
	Equipment usage (d)				
		Total			1.00

\*Normally following source of index shall apply. Public Entity shall choose applicable Index for each item.

- (a) Labor: "National Salary and Wage Rate Index"- "Construction Labor" of Nepal Rastra Bank or rate fixed by District Rate Fixation Committee
- (b) Material:"National Wholesale Price Index" - Construction Materials" of Nepal Rastra Bank
- (c) Equipment usage: "National Wholesale Price Index" - Machinery and Equipment" of Nepal Rastra Bank or "Fuel" Price fixed by Nepal Oil Corporation.

\*\* Bidders proposed weightings should be within the range specified by the Employer in column - 5

<sup>4</sup> Non-compliance of the data (stipulated by the bidder in this table) with requirements described here shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.





# Table of Price Adjustment Data

[To be used if Price Adjustment is applicable as per GCC 53.6]

## Schedule of Cost Indexation

**[Note to Employer:** It is recommended that the Employer is advised by 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] **[When finalizing the contract document, ensure that the finalized Schedule of Cost Indexation is attached to the Contract Agreement.]**

[The formulae for price adjustment shall be of the following general type:]

$$P_n = a + b \frac{L_n}{L_0} + c \frac{E_n}{E_0} + d \frac{M_n}{M_0} + \dots$$

where:

“P<sub>n</sub>” is the adjustment multiplier to be applied to the estimated contract value in the relevant currency of the work carried out in period “n”, this period being a month unless otherwise stated in the Contract Data;

“a” is a fixed coefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

“b”, “c”, “d”, ... are coefficients representing the estimated proportion of each cost element related to the execution of the Works as stated in the relevant table of adjustment data; such tabulated cost elements may be indicative of resources such as labour, equipment and materials;

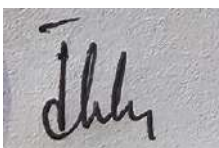
“L<sub>n</sub>”, “E<sub>n</sub>”, “M<sub>n</sub>”, ... are the current cost indices or reference prices for period “n”, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

“L<sub>0</sub>”, “E<sub>0</sub>”, “M<sub>0</sub>”, ... are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

The cost indices or reference prices stated in the Table of Adjustment Data shall be used. If their source is in doubt, it shall be determined by the Engineer. For this purpose, reference shall be made to the values of the indices at stated dates (quoted in the fourth and fifth columns respectively of the table).

If the currency in which the Contract price is expressed is different from the currency of the country of origin of the indices, a correction factor will be applied to avoid incorrect adjustments of the Contract price. The correction factor shall be:  $Z_0 / Z_1$ , where,

$Z_0$  = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Base date, and





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$Z_1$  = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Date of Adjustment.

### Table of Adjustment Data

[In Tables A, B, and C, below, the Bidder shall (a) indicate its amount of local currency payment, (b) indicate its proposed source and base values of indices for the different foreign currency elements of cost, (c) derive its proposed weightings for local and foreign currency payment, and (d) list the exchange rates used in the currency conversion. 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.]

**Table A. Local Currency**

Index code	Index description	Source of index	Base value and date	Bidder's related currency amount	Employer's proposed weighting range	Bidder's proposed weighting
------------	-------------------	-----------------	---------------------	----------------------------------	-------------------------------------	-----------------------------

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A	Nonadjustable			—	A: 0.15	A: 0.15
B	Labour	“National Salary and Wage Rate Index”- Construction Labourer” of Nepal Rastra Bank	28 days prior to deadline of submission of bids		B: <u>0.10 – 0.20</u>	B: _____
C	Material	Wholesale price published by Nepal Bitumen and Barrel Udhyog	28 days prior to deadline of submission of bids		C: <u>0.45 – 0.55</u>	C: _____
	i) Bitumen	Wholesale price published by Nepal Oil Corporation	28 days prior to deadline of submission of bids		i) 0.09 – 0.11	i)
		“National Wholesale Price Index”- Construction Materials of Nepal Rastra Bank			ii) 0.045 – 0.055	ii)
					iii) 0.315 – 0.385	iii)
D	ii)Fuel (Diesel)	National Wholesale Price Index – “Transport Vehicles and Machinery Goods” of Nepal Rastra Bank			D: <u>0.10 – 0.20</u>	D: _____
	iii)Other construction material					
	Equipment					
<b>Total</b>					<b>1.00</b>	





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### Table B. Foreign Currency (FC)

**State type:** ..... [If the Bidder is allowed to receive payment in foreign currencies this table shall be used. If Bidder wishes to quote in more than one foreign currency (up to three currencies permitted) then this table should be repeated for each foreign currency.]

Index code	Index description	Source of index	Base value and date	Bidder's related source currency in type/amount	Equivalent in FC1	Employer's proposed weighting range	Bidder's proposed weighting
A	Nonadjustable	—	—	—		A: 0.15	A: _____
B	Labour	-	-			B: <u>0.00</u>	B: _____
C	Material to be imported		28 days prior to deadline of submission of bids			C: <u>0.35 – 0.50</u>	C: _____
D	Equipment		28 days prior to deadline of submission of bids			D: <u>0.30 – 0.50</u>	D: _____
<b>Total</b>						<b>1.00</b>	

[To be used if Price Adjustment is applicable as per GCC 53.6]



Code	Construction Material*	Unit	Base Price (NRs/Unit) (Ex-factory)	Source (Factory)**
1	2	3	4	5

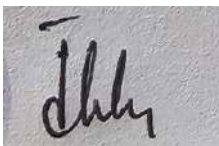
\* Major construction materials to be specified by Employer in column - 2.

\*\* Base Price and source normally to be specified by Employer (or alternatively informed to be proposed by bidder) in column 4 and 5.

**Note:**

The base prices of the construction materials shall be taken as of 30 days before the deadline for submission of the Bid as quoted by the Bidder and verified by the Employer. For the purpose of calculation of price adjustment, the Ex-factory price of the same source shall be taken into consideration.

**Bid Security**






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**Bank Guarantee**

**Bank's Name, and Address of Issuing Branch or Office**  
**(On Letter head of the Bank)**

Beneficiary: ..... **name and address of Employer** .....

Date: ..... Bid Security No.: .....

We have been informed that. .... *[insert name of the Bidder]* (hereinafter called "the Bidder") intends to submit its bid (hereinafter called "the Bid") to you for the execution of ..... *name of Contract* ..... under Invitation for Bids No. .... ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee. At the request of the Bidder, we..... *name of Bank* ..... hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of . . . . . *amount in figures* ..... (*amount in words* ..... ) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn or modifies its Bid during the period of bid validity specified by the Bidder on the Letter of Technical and Price Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) changes the prices or substance of the bid while providing information pursuant to clause 27.1 of ITB; or
- (d) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the performance security, in accordance with the ITB.
- (e) is involved in fraud and corruption in accordance with the ITB

This guarantee will remain in force up to and including the date ..... *number* ..... days after the deadline for submission of Bids as such deadline is stated in the instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

This Bank guarantee shall not be withdrawn or released merely upon return of the original guarantee by the Bidder unless notified by you for the release of the guarantee.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

... *Bank's seal and authorized signature(s)* ...

**Note:**

The bid security of ..... has been counter guaranteed by the Bank ..... on ..... (Applicable for Bid Security of Foreign Banks).



# Technical Proposal Format

Personnel

Equipment

Site Organization

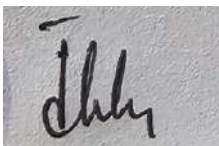
Method Statement

Mobilization Schedule

Construction Schedule

Environmental and Social Risk Management

Others

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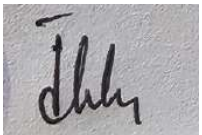
## Personnel

### Form PER - 1: Proposed Personnel

Bidders should provide the names of suitably qualified personnel to meet the specified requirements for each of the positions listed in Section VI (Work Requirements). The data on their experience should be supplied using the Form below for each candidate.

S.N.	Key personnel	Qualification	Minimum general experience	Minimum specific experience
1	Contract manager - 1	Bachelor's degree in Civil Engineering or relevant subject	15 years	7 years
2	Civil (Road) engineer - 1	Bachelor's degree in civil engineering	10 years	5 years
3	Material Engineer - 1	Bachelor's degree in civil engineering	10 years	5 years
4	Lab technician - 1	Diploma in Civil engineering or any relevant subject (Specific Experience Certificate & minimum 4 weeks training is required on relevant job for other discipline)	10 years	5 years
5	Surveyor - 1	Diploma in civil engineering	10 years	5 years
6	Environment safeguard officer - 1	Bachelor's degree in relevant subject	10 years	2 years

\* As listed in Section VI (Work Requirements).



## Form PER - 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below.

Position*		
Personal Information	Name	Date of Birth
	Professional qualifications	
Present employment	Name of employer	
	Address of employer	
	Telephone	Contact (manager/personnel officer)
	Fax	E-mail
	Job title	Years with present employer

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

From	To	Company, Project, Position and Relevant Technical and Management Experience





## Equipment

Form EQU: Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section VI (Work Requirements). A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

**(i) For the equipment under Bidder's ownership**

No.	Equipment Type and Characteristics	Total Nos. of Equipment under Bidder's Ownership	No. of Equipment engaged/proposed for ongoing/committed contracts	Nos. of Equipment proposed for this contract
1.	Asphalt plant	One (1)		
2.	Asphalt paver	One (1)		
3.	Grader	One (1)		
4.	Water tanker	Two (2)		
5.	Vibratory roller	Two (2)		
6.	Pneumatic roller	Two (2)		
7.	Excavator	Two (2)		
8.	Bitumen distributor	One (1)		
9.	Concrete batching plant	One (1)		
10.	Mechanical Broomer	One (1)		

**(ii) For the Equipment to be leased/hired**

No.	Equipment Type and Characteristics	Total Nos. of Equipment under the ownership of lease/hire provider	No. of Equipment engaged/committed for other works	Nos. of Equipment proposed to be leased/hired for this contract
1.	Asphalt plant	One (1)		
2.	Asphalt paver	One (1)		
3.	Grader	One (1)		
4.	Water tanker	Two (2)		
5.	Vibratory roller	Two (2)		
6.	Pneumatic roller	Two (2)		
7.	Excavator	Two (2)		
8.	Bitumen distributor	One (1)		
9.	Concrete batching plant	One (1)		
10.	Mechanical Broomer	One (1)		

Type of Equipment

Equipment Information	Name of manufacturer	Model and power rating
-----------------------	----------------------	------------------------

*Jhly*

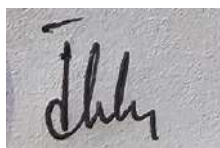


	Capacity	Year of manufacture
Current Status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

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

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

**The Bidder shall be solely responsible for the data provided. However, this shall not limit the right of Employer to verify the authenticity of submitted information.**






02/11/2011  
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## Bidder's Information and Qualification Format

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Shy

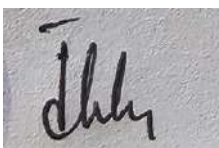


# Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

## Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of JV, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents.	
1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.	
2. Authorization to represent the firm or JV named in above, in accordance with ITB 20.2.	
3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1.	
4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5.	





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## Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

JV / Specialist Subcontractor Information	
Bidder's legal name	
JV Partner's or Subcontractor's legal name	
JV Partner's or Subcontractor's country of constitution	
JV Partner's or Subcontractor's year of constitution	
JV Partner's or Subcontractor's legal address in country of constitution	
JV Partner's or Subcontractor's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents.	
<ol style="list-style-type: none"><li>1. articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.</li><li>2. Authorization to represent the firm named above, in accordance with ITB 20.2.</li><li>3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5.</li></ol>	

Handwritten signature





# Form ELI - 3: Bidder's Running Contracts

Each member of a JV must fill in this form

Bidder's Running Contracts					
Name of office	Contract Identification no.	Source of Fund*	Date of issuance of Letter of Acceptance	Status of contract**	Date of Issuance of Taking Over Certificate***

\* Mention GON funded or DP funded or Other PE (Insert name) funded

\*\* Mention "Yet to sign" if contract is not signed, "Running" if contract has been signed and contract is running and "Substantially completed" if taking over certificate has been issued.

\*\*\* Insert date of issuance of taking over certificate if the awarded contract has been substantially completed and taking over certificate has been issued.





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## Form LIT - 1: Pending Litigation

Each member of a JV must fill in this form

Pending Litigation			
<input type="checkbox"/> No pending litigation in accordance with Criteria 2.2 of Section III (Evaluation and Qualification Criteria)			
<input type="checkbox"/> Pending litigation in accordance with Criteria 2.2 of Section III (Evaluation and Qualification Criteria)			
Year	Matter in Dispute	Value of Pending Claim in NRS	Value of Pending Claim as a Percentage on Net Worth

Handwritten signature



# Form FIN - 1: Financial Situation

Each Bidder or member of a JV must fill in this form

Financial Data for Previous 3 Years [in NRS]		
Year 1 :	Year 2 :	Year 3 :

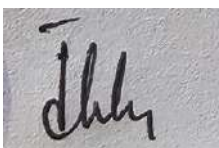
## Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

## Information from Income Statement

Total Revenues			
Profit Before Tax			
Profit After Tax			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three or above years, as indicated above, complying with the following conditions.
- All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
- Historic financial statements must be audited by a certified auditor.
- Historic financial statements must be complete, including all notes to the financial statements.
- Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).





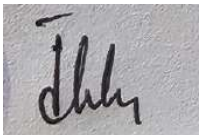
## Form FIN - 2: Average Annual Construction Turnover

Each Bidder or member of a JV must fill in this form

The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for work in progress or completed to NRs at the end of the period reported.

Annual Turnover Data for the Last 10 Years (Construction only)	
Year	Amount Currency

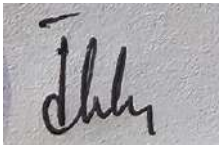
- **Average Annual Construction Turnover  
(Best three years within the last 10 years)**



Form FIN - 3: Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as indicated in Section III (Evaluation and Qualification Criteria).

Financial Resources		
No.	Source of financing	Amount (in NRS)
1		
2		
3		



### Form FIN- 5: Current Contract Commitments / Works in Progress

Bidders and each partner to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

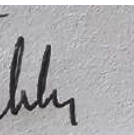
Current Contract Commitments ( For Calculation of B with reference of FIN-3)									
No.	Name of Contract	Name of the Contractor/s	Employer's Contact Address, Tel, Fax	Contract Share in % (a)	Contract Amount in Millions (b)	Contract Date(yyyy-mm) (c)	Initial or Revised Contract Duration (months) (d)	Value of outstanding works [In Millions, NRS] <sup>#</sup> (e)	Estimated Time in Month to Complete the outstanding works (f) = (c) + (d) – Date of Invitation of Bid (f)
1									
2									
3									
4									

Signature of Bidder

# The Outstanding Works means Contract Price (excluding Vat) minus Work Evaluated by Employer till the reference date. Bidder shall have to submit the relevant documentary evidence to substantiate the facts/figures.

Note 1: "B" shall be calculated as :  $B = \sum \left[ \frac{(e) \times (a)}{(f)} \right] \times 12$  , If (f) is less than 12, then value of (f) shall be taken as 12.

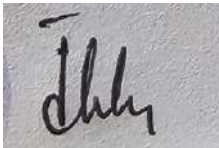
Note 2: If Initial or Revised Contract Date is run out with respect to Date of Invitation of Bid, the Estimated Time in Month to Complete the outstanding works shall be taken equal to 12 months.



# Form EXP - 1: General Construction Experience

Each Bidder or member of a JV must fill in this form.

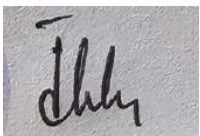
General Construction Experience				
Starting Month Year	Ending Month Year	Year	Contract Identification and Name and Address of Employer Brief Description of the Works Executed by the Bidder	Role of Bidder



**Form EXP - 2(a): Specific Construction Experience**

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
Contract No..... of.....		Contract Identification	
Award Date		Completion Date	
Role in Contract	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total Contract Amount	<input type="checkbox"/> NRS .....		
If Partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount	
Employer's Name Address Telephone/Fax Number E-mail			
Description of the similarity in accordance with Criteria 2.4.2 (a) of Section III			
<p><b>Note :</b></p> <p><i>The Employer should insert here contract size, complexity, methods, technology, or other characteristics as described in Section VI (Work Requirements) against which the bidder demonstrates similarity in the box on the right-hand-side.</i></p>			






## Form EXP - 2(b): Specific Construction Experience in Key Activities

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
Contract No..... of.....		Contract Identification	
Award Date		Completion Date	
Role in Contract	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total Contract Amount	<input type="checkbox"/> NRS .....		
If Partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount	
Employer's Name Address Telephone/Fax Number E-mail			
Description of the similarity in accordance with Criteria 2.4.2 (a) of Section III			
<p><b>Note :</b></p> <p><i>The Employer should insert here production rate(s) for the key activity (activities) subject contract against which the bidder demonstrates in the box on the right-hand-side production rates achieved by him on previous contracts.</i></p>			



**Form EXP - 4.2(c)**

**Specific Experience in Managing ES aspects**

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: \_\_\_\_\_

Date: \_\_\_\_\_

Bidder's JV Member Name: \_\_\_\_\_

Contract Id. and title: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

1. Key Requirement no 1 in accordance with 4.2 (c): \_\_\_\_\_

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Subcontractor <input type="checkbox"/>
Total Contract Amount				
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): \_\_\_\_\_

3. Key Requirement no 3 in accordance with 4.2 (c): \_\_\_\_\_

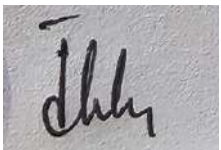
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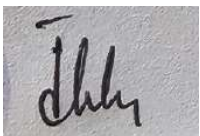
## Section V - Eligible Countries

For the purpose of ITB 4.2: “**Eligible Countries**”; and

For the purpose of Country-of-Origin ITB 5.1 and GCC 79.2: “**all Countries**”

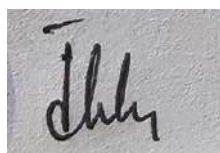
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## Part II : EMPLOYER'S REQUIREMENTS

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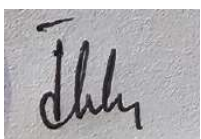
# Table of Clauses

<b>Scope of Work .....</b>	<b>80</b>
<b>Specifications .....</b>	<b>81</b>
Notes on the Specifications.....	81
Model Clause: Equivalency of Standards and Codes .....	82
<b>Drawings.....</b>	<b>81</b>
<b>Supplementary Information .....</b>	<b>89</b>
<b>Personal Requirements.....</b>	<b>92</b>
<b>Equipment Requirements.....</b>	<b>93</b>
<b>Section VI: Bill of Quantities .....</b>	<b>96</b>
Notes for Unit Rate Contracts:.....	96
Preamble of Bill of Quantities.....	98
A. General.....	98
B. Day work Schedule .....	98
Provisional Sums.....	100
<b>Bill of Quantities.....</b>	<b>101</b>



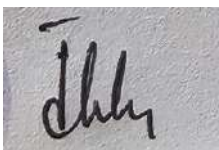
## Section VI: Works Requirements

This Section contains the Specification, the Drawings, and supplementary information that describe the Works to be procured, Personnel Requirements and Equipment Requirements.

A square box containing a handwritten signature in black ink, appearing to read 'Jhly'.

## Scope of Work

The proposed road (*Upgradation of Suryodaya Marga (CH 0+000 to CH 8+380)*) improvement work includes widening of existing road to a double lane carriageway width with provision of footpath, traffic safety configurations and utilities complying the urban road standard. It comprises construction of a flexible pavement with granular sub base & crushed base, wet mix macadam and bituminous concrete layers. The proposed alignment will also have road side drains, cross drainage structures (Box/pipe/Slab culverts), protection works, footpaths, bio-engineering and road furniture etc.

A handwritten signature in black ink on a light-colored background.

# Specifications

## Notes on the Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Employer without qualifying or conditioning their Bids. The specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Models of specifications from previous similar projects are useful in this respect. The use of metric units is encouraged by the Funding Agency in case of funding assisted projects. Most specifications are normally written specially by the Employer or Project Manager to suit the Contract Works in hand. The available standard specification of works of Ministry of Physical Infrastructure and Transport, DoLI and Other line Ministries can be adopted for respective civil construction works.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction; however it may not necessarily be adequate to be used in a particular Works Contract and may necessitate preparation of Particular (Special) Specifications to amend and or supplement the provision of the General Specifications to meet the requirement of the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards of Nepal or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable.

Employers should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in the Procurement Documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential bidders. For example:

The Employer should provide a description of the selected parts of the Works with appropriate references to Drawings, Specifications, Bill of Quantities, and Design or Performance criteria, stating that the alternative solutions if applicable shall be at least structurally and functionally equivalent to the basic design parameters and specifications.

Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details.



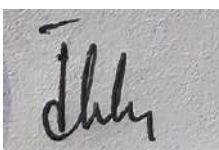



### **Sample Clause: Equivalency of Standards and Codes**

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Project Manager's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Project Manager at least 30 days prior to the date when the Contractor desires the Project Manager's consent. In the event the Project Manager determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These Notes for Preparing Specifications are intended only as information for the Employer or the person drafting the Procurement Documents. They should not be included in the final documents.

- a. Standard Specification for Road and Bridge Works, DoR, 2073 (with amendment 2078), Ministry of Physical Planning and Works, Department of Roads, Government of Nepal.
- b. Specifications of Water Supply pipe Works issued under the authority of Government of Nepal, Department of Water Supply and Sewerage Management.
- c. Specifications of Electrical Works issued under the authority of Government of Nepal, Nepal Electricity Authority



**SPECIAL SPECIFICATIONS****TECHNICAL SPECIFICATIONS FOR 50W WHITE-LED STREET LIGHTING SYSTEM**

Providing and erecting street light mounted on a steel circular hollow pole of standard special specifications for street lighting, 9 m high spaced 25m apart, overhang on one side if fixed on the footpath, fitted with 50-watt white emitting diod (W-LED) with auto on/off including Cable and fixed firmly in concrete foundation as per design, Drawing and Technical Specifications.

- White light emitting Diode (W-LED)
- 50-Watt, W-LED luminate
- LED chip should be in compliance to IES. LM-80

S. N	Components	Special Specification for Electric Street Lights Fitting
1	Light Source	White Lights Emitting Diode (W-LED)
		50-watt W-LED luminaire, dispersed beam, soothing to eyes with the use of properties and diffuser
		LED Chip should be in compliance with IES: (approved method for Measuring Lumen Maintenance of LED Light Sources and LED lumen depreciation time to L70). Test report for same should be submitted.
2	Light Output	The Luminaire must use high efficacy W-LED with a minimum of 135 lumens per
		For Single Light Level:
		Minimum 24 LUX when measured at a point 4 meters below the light. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.
		For Multiple Light Levels:
		The luminaire should have two levels of light to take care of different lighting needs during the night. Minimum 24 LUX, when measured at a point 4 meters below the light, (at "HIGH" illumination level). The illumination should be uniform without dark bands or abrupt variations. Minimum 12 LUX at lower illuminations level. (High light output will be preferred).
		The luminaire shall be tested for Electrical, Photometry, and color parameters as per IESLM-79:2008 or IS:16106:2012 For the following performance parameters:
		1. Total luminous flux:> 1500lm
		2. Luminous efficacy (i.e., system efficacy)>125lm/W
		3. Color Temperature: Between 550k to 6500k
		4. CRI >70
5. Luminous intensity distribution should follow the building patterns in polar curves.		
6. Require validation report using ies file, which is generated during luminous intensity distribution test and using maintenance factor 0.9 and pole height of 4 m. Road width 5 and pole span 15 m. the average illuminance level and uniformity should comply with requirements as per ISI 944, wherever applicable.		
7. The luminaires should be tested for all types of tests as per IS 10322-part 5 sheet 3 or IEC6C98-2-3 standards.		
3	Mounting of light	Pole height 9m above the ground level and 1m above the ground



4	Electronics efficiency	Overall total Efficiency of the electronics should be minimum of 90%
5	Duty cycle	Dusk to dawn: First 4 hours full light (Min.24 Lux), rest of the time at lower light (50% min, 12 Lux) level. (Higher light output will be preferred)
6	Autonomy	3 days or minimum of 36 operating hours per permissible discharge with fully charged Lithium- Ferro Phosphate Battery.
7	Ingress protection-IP	Optical and Control gear compartment – IP 65, IP 66
8	Impact resistance of casing	>IK08
9	Radiated Emission test	As per CISPR-15
10	ESD (Electrostatic Discharge and Radiated susceptibility test)	As per IEC 61547
11	Panel Board	It should be IP-65 outdoor type
12	Power cable	All cables used should be NS marked copper and armored.
13	JB and MCB	The MCB should be typed B curve and should be a double pole and to be fixed in JB of the pole with din mil.
14	HDP conduit	The conduit must be 6 kg pressure
15	Earthing	Each pole must be earthed with necessary arrangement and with all required.

## SITE LABORATORY

### Laboratory Equipment

S.N	Description	Unit	Qty	Field Lab	Out Source Lab
<b>A</b>	<b>General</b>				
<b>1</b>	<b>Office Supply ( furniture &amp; Furnishes)</b>				
<b>1.1</b>	Laptop	Nos.	1		√
<b>1.2</b>	Desktop	Nos.	1	√	
<b>1.3</b>	Printer & Photo copy	Nos.	1	√	
<b>1.4</b>	Book Slevs	Nos.	1	√	
<b>1.5</b>	Filing Cabinet	Nos.	2	√	
<b>1.6</b>	Office Table	Nos.	2	√	
<b>1.7</b>	Office Chair with Arm	Nos.	2	√	
<b>1.8</b>	Office Chair for Guest	Nos.	10	√	
<b>1.9</b>	Office Operation including Stationeries	months	18	√	
<b>1.10</b>	Providing Kitchen & Utinels with Tean & Coffee.	months	36		√
<b>1.11</b>	Supply and Provide and maintained 4WD service Vehicle for the supervision and Monitoring (Quality Control).		18	To be contractor Part	
<b>1.12</b>	Others( Stand Fan/Room Heater/Water Filter/ Carpet/Curtain etc.)	months			
<b>2</b>	<b>Equipment's Supply</b>				
2.1	5- 20 kg capacity, sensitivity 1 g	No	1	√	



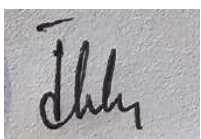
S.N	Description	Unit	Qty	Field Lab	Out Source Lab
2.2	500 gm capacity, sensitivity 0.01 g (electrical)	No	1	√	
2.3	5 kg capacity, sensitivity 0.1 g (electrical)	No	1	√	
2.4	Chemical Balance 100gm capacity, sensitivity 0.001gm		1	√	
2.5	Oven Electrically Operated	Nos.	1	√	
2.6	Water Bath Serorological 2 racker solar	Nos.	1	√	
2.7	Mercury Thermometer 250 °C	Nos.	1	√	
2.8	Dial Thermometer 400 °C	Nos.	1	√	
2.9	Mercury Thermometer 50 °C	Nos.	1	√	
2.10	Wet & Dry Thermometer	Nos.	1		√
2.11	Spatulas 200/150mm	Nos.	1	√	
2.12	GI tray Sets ( various Size)	Nos.	1	√	
2.13	Aluminum Moisture container 75 X50mm	Nos.	1	√	
2.14	Rubber Mallet	Nos.	1	√	
2.15	Aggregate Steel Scoop	Nos.	1	√	
2.16	Aluminum Scoop	Nos.	1	√	
2.17	Gauging Trowel	Nos.	1	√	
2.18	S.S Bowel 2 ltr	Nos.	1	√	
2.20	Volumetric Flask (1000/500/250 ml)	Nos.	1	√	
2.21	Measuring Cylinder (1000/500/250/100ml)	Nos.	1	√	
2.22	Beaker(1000/500/250ml)	Nos.	1	√	
2.23	Evaporating Disc-100mm	Nos.	1	√	
2.24	Venire Caliper-150mm digital	Nos.	1	√	
2.25	Miscellaneous ( Safety Accessories)	Nos.	1	√	
2.26	Specific Gravity Bottle	Nos.	1	√	
2.27	Sand Pouring Apparatus 200mm	Nos.	1	√	
2.28	Sand Pouring Apparatus 100mm	Nos.	1	√	
<b>3</b>	<b>Sieves</b>			√	
3.1	Set of GI Sieve 450 dia Size, as per IS 462 with lead and pan;	Set	1	√	
3.2	Set of Brass Sieve 200mm/850mm size dia.as per IS 462 with lead and pan;	Set	1	√	
3.3	Sieve Sacker capable of sacking 200mm & 450 mm dia sieve 9 Electrically operated0	nos	1	√	



S.N	Description	Unit	Qty	Field Lab	Out Source Lab
3.4	Other Miscellaneous (Measuring Cylinders/Beakers/Tray/wash bottle/glass funnels/safety Gloves etc.)	LS	1	√	
<b>4</b>	<b>Soil Tests</b>				
4.1	Liquid Limit test set	set	1	√	
4.2	Compaction Apparatus (Proctor) as per IS 2720	set	1	√	
4.3	Dynamic Cone Penetration Equipment complete	set	2		√
4.4	Water Testing Kit	set	1		√
4.5	Organic Content testing kit	set	1		√
4.6	Compaction Mold	set	1	√	
<b>5</b>	<b>CBR Test set</b>	Set	1		√
<b>6</b>	<b>Core Cutter Apparatus</b>	Set	1		√
<b>7</b>	<b>Concrete tests</b>				
7.1	Slump test Apparatus	set	3	√	
7.2	Aggregate crushing testing machine(ACV)	No	1	√	
7.3	Aggregate Impact testing machine (AIV)	No,	1	√	
7.4	Los Angle Abarssion test Machine (LAA)	No.	1	√	
7.5	Concrete cube mould (150*150*150) mm <sup>3</sup>	set	3	√	
7.6	Mortar cube mould (70.7*70.7*70.7) mm <sup>3</sup>	set	3	√	
7.7	Standard sand (Coarse,medium and fine)	Bag	2	√	
<b>8</b>	<b>Cement Tests</b>				
8.1	Le-chatelier Apparatus for soundness test of cement all complete	set	1		√
8.2	Vicat needle apparatus for setting time with plungers as per IS 2542 (Part 2)	set	1		√
<b>9</b>	<b>Machines</b>				
9.1	Digital Compression Testing Machine,Capacity 2000kN Flexure Test Attachment, 100 kN capacity for Digital CTM.	set	1	√	
9.2	Digital Compression Testing Machine,Capacity 500kN	set	1	√	
9.3	Concrete/ Pavement Core Drilling Machine Diamond Core Bit, 100mm dia x 200 LONG FOR CONCRETE	set	1	√	
10	<b>Part 2 Bituminous Test</b>				

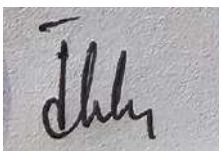


S.N	Description	Unit	Qty	Field Lab	Out Source Lab
10.1	Constant temperature bath for accommodating bitumen test specimen, electrically operated, and thermostatically controlled ( to accommodate minimum six specimens)	No	1		√
10.2	Marshall compaction apparatus, automatically operated as per EN 12697-10-30 complete with accessories ( with 180 N Marshall Moulds)	set	1		√
10.3	Viscometer set (for Absolute and Kinematic viscosity of Bitumen, Emulsion, etc.)	set	1		√
10.4	Ductility meter	set	1		√
10.5	Softening point ( Ring and Ball) apparatus	set	1		√
10.6	Bitumen laboratory mixer including required accessories ( 20 litres)	set	1		√
10.7	Soxhlet extraction or centrifuge type apparatus complete with extraction thimbles with solvent and filter paper	set	1		√
10.8	Penetrometer automatic type, including adjustable weight arrangement and needles as per IS 1203	set	1		√
10.9	Riffle box (Riffle Sample Divider, 14 slots (13 mm slot width)	No	1		√
10.10	Thin film oven test apparatus for modified binder either with PMB or CRMB	No	1		√
10.11	Core drilling machine suitable for 150 mm dia core	set	1		√
10.12	Specific Gravity Apparatus Test for Asphalt core with buoyancy balance of 5kg capacity complete set	set	1		√
10.13	Filter Paper for Marshall and Extractor Test	set	1		√
10.14	Water Bath (Digital Automatic temp. controller) for Marshall Sample.	No.	1		√
<b>11</b>	<b>Zinc Coating Tests</b>				
11.1	Chemical	LS	1	√	
11.2	Digital Screw Gauge	No.	1	√	




# Drawings

*[Refer Volume II: Drawings]*



## Supplementary Information

### Environmental and Social (ES) requirements

*[The Employer's team preparing the ES requirements should include a suitably qualified Environmental and Social specialist/s.]*

*In preparing detailed specifications for ES requirements the Borrower should refer to and consider the applicable environmental and social standards in the ESF including specific requirements set out in the Environmental and Social Commitment Plan (ESCP), ESIA/ESA/ESMP, EHSGs and other GIIP as well as SEA and SH prevention and management obligations.*

*The ES requirements should be prepared in manner that does not conflict with the relevant General Conditions (and the corresponding Particular Conditions if any) and other parts of the specifications.*

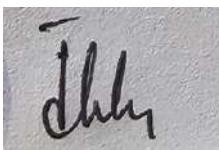
*The following is a non-exhaustive list of Sub-Clauses of the Conditions of Contract that make reference to ES matters stated in the Specification.]*

<b>Sub-Clause/Clause No.</b>	<b>Sub-Clause/Clause</b>		<b>Remarks</b>
4.1	<i>Contractor's General Obligations</i>		<p><i>If the Contract specifies that the Contractor shall design any part of the Permanent Works, state any applicable technical standards and requirements including to address:</i></p> <ul style="list-style-type: none"> <li><i>• climate change considerations,</i></li> <li><i>• universal access,</i></li> <li><i>• risks of the public's potential exposure to operational accidents or natural hazards, including extreme weather events, applicable certification or approval</i></li> </ul>





<b>Sub- Clause/Clause No.</b>	<b>Sub-Clause/Clause</b>		<b>Remarks</b>
			<i>requiriements</i>
4.6	<i>Co-operation</i>		<i>Indicate specific aspects (if any) that require contractor's cooperation such as to conduct environmental and social assessment.</i>
4.8	<i>Health and Safety Obligations</i>		<p><i>Indicate if there would be a health service provider.</i></p> <p><i>Indicate if access to or provision of services that accommodate physical, social and cultural needs of Contractor's Personnel is required.</i></p> <p><i>Indicate any additional requirements for the health and safety manual</i></p>
4.18	<i>Protection of the Environment</i>		<i>Specify any values for emissions, surface discharges, effluent and any other pollutants from the Contractor's activities that shall not be exceeded. The Contractor's MSIP/CESMP shall set out the measures the Contractor will take to ensure compliance with these limit values.</i>
4.21	<i>Security of the Site</i>		<i>State any additional requirements for the security arrangements</i>
4.23 (c)	<i>Archeological and Geological Findings</i>		<i>Specify other requirements if any in accordance with the WB safeguard policies.</i>




Sub-Clause/Clause No.	Sub-Clause/Clause		Remarks
6.2	<i>Rate of Wages and Conditions of Labour</i>		<i>State applicable requirements in accordance with the labour management procedure.</i>
6.5	<i>Working Hours</i>		<i>State applicable requirements in accordance with the labour management procedure.</i>
6.27	<i>Traning of Contractor's Personnel</i>		<i>Specify, details of any training to relevant Contractor's Personnel to be provided by the Employer's Personnel on environmental and social aspects. (Whom, what, when, where, how long etc.)</i>

*In addition to provisions in the above table, the Employer shall specify the following as applicable.*

The bidder will be required to follow the World Bank Safeguards policies as well the World Bank Environmental Health and Safety Guidelines and relevant guidance notes.

***Management and Safety of Hazardous Materials***

*As applicable, specify requirements for the management and safety of hazardous materials (see WB safeguard policies and relevant guidance notes).*

***Resource Efficiency and Pollution Prevention and Management***

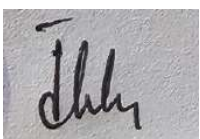
*As applicable specify Resource Efficiency and Pollution Prevention and Management measures (see WB safeguard policies and relevant guidance notes).*

- ***Resource efficiency***

*The Employer shall specify, as applicable, measures for improving efficient consumption of energy, water and raw materials, as well as other resources.*

- ***Energy:*** *When the Works have been assessed to involve a potentially significant use of energy, specify any applicable measures to optimize energy usage.*

- ***Water:*** *When the Works have been assessed to involve a potentially significant use of water or will have potentially significant impacts on water quality, specify any applicable measures that avoid or minimize water usage so that the Works' water*




*use does not have significant adverse impacts on communities, other users and the environment.*

- **Raw material:** *When the Works have been assessed to involve a potentially significant use of raw materials, specify any applicable measures to support efficient use of raw materials.*
- **Pollution prevention and management**
  - **Management of air pollution:** *specify any measure to avoid or minimize Works related air pollution. See also Sub-Clause 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
  - **Management of hazardous and nonhazardous wastes:** *specify any applicable measures to minimize the generation of waste, and reuse, recycle and recover waste in a manner that is safe for human health and the environment including storage, transportation and disposal of hazardous wastes. See also Sub-Clauses 4.8 and 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
  - **Management of chemicals and hazardous materials:** *specify any applicable measures to minimize and control the release and use of hazardous materials for Works activities including the production, transportation, handling, and storage of the materials. See also Sub-Clauses 4.8 and 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
- **Biodiversity Conservation and Sustainable Management of Living Natural Resources**

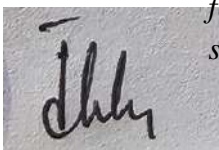
*The Employer shall specify, as applicable, Biodiversity Conservation and Sustainable Management of Living Natural Resources (see WB safeguard policies and relevant guidance notes). This includes, as applicable:*

  - *invasive alien species: managing the risk of invasive alien species during the execution of the Works;*
  - *sustainable management of living natural resources; and*
  - *certification and verification requirements for the supply of natural resource materials where there is a risk of significant conversion or significant degradation of natural or critical habitats.*

*See also Sub-Clause 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
- **Road Safety**
  - *State any specific traffic and road safety requirement, as applicable. See also Sub-Clause 4.15 of the Special Provisions. For details, refer to the Guidance Note on Road safety.*

#### *Payment for ES Requirements*

*The Employer's ES and procurement specialists should consider how the Contractor will cost the delivery of the ES requirements. In the majority of cases, the payment for the delivery of ES requirements shall be a subsidiary obligation of the Contractor covered under the prices quoted for other Bill of Quantity items. For example, normally the cost of implementing work place safe systems of work, including the measures necessary for ensuring traffic and road safety, shall be*



*covered by the Bidder's rates for the relevant works. Alternatively, provisional sums could be set aside for discrete activities for example for HIV counselling service, and, SEA and SH awareness and sensitization or to encourage the contractor to deliver additional ES outcomes beyond the requirement of the Contract.*

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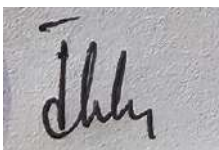
### Contractor's Representative and Key Personnel

*[Note: Insert in the following table, the minimum key specialists required to execute the contract, taking into account the nature, scope, complexity and risks of the contract.*

*Where Project SEA risks are assessed to be substantial or high, the Employer shall include a Sexual Exploitation, Abuse and Harassment expert(s).]*

### Contractor's Representative and Key Personnel

Item No.	Position/specialization	Relevant academic qualifications	Minimum years of relevant work experience
1	Contractor's Representative		
2	<i>[Environmental]</i>	<i>[e.g. degree in relevant environmental subject]</i>	<i>[e.g. [years] working on road contracts in similar work environments]</i>
3	<i>[Health and Safety]</i>		
4	<i>[Social]</i>		
5	Sexual Exploitation, Abuse and Harassment  <i>[Where Project SEA risks are assessed to be substantial or high, Key Personnel shall include an expert(s) with relevant experience in addressing sexual exploitation, sexual abuse and sexual harassment cases]</i>		<i>[e.g. 5 years of monitoring and managing risks related to gender-based violence, out of which 3 years of relevant experience in addressing issues related to sexual exploitation, sexual abuse and sexual harassment]</i>
6	<i>modify as appropriate</i>		




## Personnel Requirements

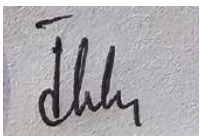
Using Form PER-1 and PER-2 in Section IV (Bidding Forms), the Bidder must demonstrate it has personnel that meet the following requirements:

SN.	Position	Required No.	Academic Qualification <i>[When position demands]</i>	Total Work Experience [Years]	Experience in Similar Works [years]
1.					
2.					
3.					
4.					
5.					

## Equipment Requirements

Using Form EQU in Section IV (Bidding Forms), the Bidder must demonstrate it has the key equipment listed below:

No.	Equipment Type and Characteristics	Min. Number Requirement
1.		
2.		
3.		
4.		
5.		




# Section VI: Bill of Quantities<sup>5</sup>

## Notes for Unit Rate Contracts:

### **Objectives**

*The objectives of the Bill of Quantities are*

- (a) to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and*
- (b) when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.*

*In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.*

### **Content**

*The Bill of Quantities should be divided generally into the following sections:*

- (a) Preamble;*
- (b) Work Items (grouped into parts);*
- (c) Day works Schedule;*
- d) Provisional Sums; and*
- (d) Summary.*

### **Preamble**

*The Preamble should indicate the inclusiveness of the unit prices, and should state the methods of measurement which have been adopted in the preparation of the Bill of Quantities and which are to be used for the measurement of any part of the works.*

### **Work Items**

*The items in the Bill of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, or phasing of the Works, or considerations of cost. General items common to all parts of the works may be grouped as a separate section in the Bill of Quantities.*

### **Day work Schedule**

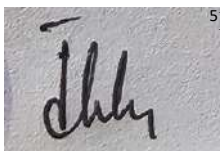
*A Day work Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Employer of the realism of rates quoted by the Bidders, the Day work Schedule should normally comprise the following:*

- (a) A list of the various classes of labour, materials, and Constructional Plant for which basic day work rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a day work basis.*
- (b) Nominal quantities for each item of Day work, to be priced by each Bidder at Day work rates as bid. The rate to be entered by the Bidder against each basic Day work item should include the Contractor's profit, overheads, supervision, and other charges.*

### **Provisional Sums**

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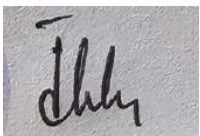
<sup>5</sup>In lump sum contracts, delete "Bill of Quantities" and replace with "Schedule of Activities" throughout this section.



*Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Project Manager in accordance with the Conditions of Contract.*

**Summary**

*The Summary should contain a tabulation of the separate parts of the Bill of Quantities carried forward, with provisional sums for Day work, for physical (quantity) contingencies, and for price contingencies (upward price adjustment) where applicable.*

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## Preamble of Bill of Quantities

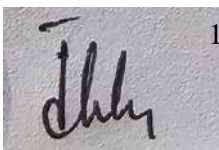
### A. General

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Project Manager and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Project Manager may fix within the terms of the Contract.
3. For any item for which measurement is based on records made before or during construction the records shall be prepared and agreed between the Engineer and the Contractor. Should the Contractor carry out such work without the prior agreement of the Engineer, the Engineer may request the Contractor to carry out investigations to confirm the extent of the work and the quantity of work certified for payment shall be solely at the Engineer's discretion. The cost of any such investigation shall be borne by the Contractor.
4. The rates and prices bid in the priced Bill of Quantities shall, except as otherwise provided under the Contract, include all construction equipment, labor, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract including fulfilment of ESHS requirements.
5. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
6. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
7. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities. The Specification Clause references where given in the item description of the Bills of Quantities are for the convenience of bidders and generally refer to the principal relevant- specification clause but do not necessarily represent the whole of the specification requirements for the work required within the item. The presence of a Specification clause reference shall not in any way reduce the Bidders obligation to complete work in accordance with all the requirements of the Specification.
8. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Project Manager in accordance with the Conditions of Contract.
9. The method of measurement of completed work for payment shall be in accordance with the Specifications.
10. The abbreviations and symbols used in this Bill of Quantities are:*[Insert as applicable]*

### B. Day work Schedule

#### a) General

1. Work shall not be executed on a day work basis except by written order of the Project Manager. Bidders



shall enter basic rates for day work items in the Schedules. These rates shall apply to any quantity of day work ordered by the Project Manager. Nominal quantities have been indicated against each item of day work, and the extended total for day work shall, be carried forward as a Provisional Sum to the Summary Total Bid Amount. Unless otherwise adjusted, payments for day work shall be subject to price adjustment in accordance with the provisions in the Conditions of Contract.

**b) Day work Labor**

1. In calculating payments due to the Contractor for the execution of day works, the hours for labor will be reckoned from the time of arrival of the labor at the job site to execute the particular item of day work to the time of departure from the job site, but excluding meal breaks and rest periods. Only the time of classes of labor directly doing work ordered by the Project Manager and are competent to perform such work will be measured. The time of gangers (charge hands) actually doing work with the gangs will also be measured but not the time of foremen or other supervisory personnel.
2. The Contractor shall be entitled to payment in respect of the total time that labor is employed on day work, calculated at the basis rates entered by it in the " SCHEDULE OF DAY WORK RATES: 1. LABOR". The rates for labor shall be deemed to cover all costs to the Contractor including (but not limited to) i) the amount of wages paid to such labor, transportation time, overtime, subsistence allowances, ii) any sums paid to or on behalf of such labor for social benefits in accordance with Nepal law, iii) Contractor's profit, overheads, superintendence, liabilities and insurance and iv) charges incidental to the foregoing.

**c) Day work Equipment**

1. The Contractor shall be entitled to payments in respect of Constructional Plant already on site and employed on day work at the basis rental rates entered by him in the "SCHEDULE OF DAY WORK RATES:2 EQUIPMENT". The said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricant, and other consumables and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants also shall be included in the rate of the equipment and no separately payment shall be made for it.
2. In calculating the payment due to the Contractor for Constructional Plant employed on day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Project Manager, the travelling time from the part of the Site where the Construction Plant was located when ordered by the Project Manager to be employed on day work and the time for return journey there to shall be included for payment.

**d) Day work Materials**

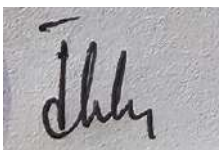
1. The Contractor shall be entitled to payment in respect of materials used for day work (except for materials for which the cost is included in the percentage addition to labor costs as detailed heretofore), at the rates entered by him in the "SCHEDULE OF DAY WORK RATES: 3 MATERIALS" and shall be deemed to include overhead charges and profit as follows;
  - (i) the rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc. and shall provide for delivery to store for stockpiling at the Site.
  - (ii) the cost of hauling materials for use on work ordered to be carried out as day work, from the store or stockpile on the Site to the place where it is to be used also shall be include in the same rate.



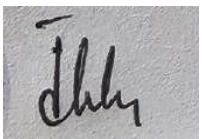
## **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Project Manager's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Employer to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

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## Bill of Quantities

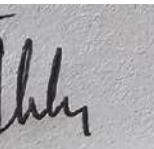
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Mechinagar Municipality  
Nepal Urban Governance and Infrastructure Project(NUGIP)  
Koshi Province  
Jhapa, Nepal

Name of Road: Suryodaya Marga 0+000 to 8+380 (Kakarbhitta to Bahundangi Road section)  
Chainage: 0+000 to 8+380

### Bill of Quantity

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
A	<b>Provisional Amounts</b>							
1		Provide for additional tests for Material and works as required and instructed by Engineer's.	PS	1			500,000.00	
2		Relocation/Re-erecting/Rehabilitation, supply, deliver, new construction & erecting of existing infrastructures (i.e. Irrigation Canal, Electric Pole, water supply pipes, Tap Stand, Foot staircase, Foot trail etc) as per instruction of Engineer and related specifications.	PS	1			5,350,000.00	



Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
3		Social and Environmental compliances: Social and Environmental compliances: Public awareness and public participation: Awareness on Physical and Mental Abuse, Railing, Sexual violence/Rape, Women trafficking and Unchained, Training on Child marriage, Environment conservation and rode side tree plantation, Activities to mitigate SEA.SH related risks, Orientation on Code of conduct for affected local people, girls in school, project staffs, staffs of contractors/ subcontractors to manage GBV/SEA/SH risks, Stakeholder consultation including dissemination of project information, maintaining a functional GRM at project level to address timely the project related grievances of communities and other stakeholders and site monitoring as instruction of Engineer (SS/SP-111)	PS	1			1,750,000.00	
<b>B</b>	<b>General Item</b>							
4		Provide Contractor All Risk (CAR): Insurance premium for the works damages for contract work for all risk including Riot, Strike, Damage, Malicious Damage, Terrorism, Loss or Damage of Material or Equipment or Property or Plant, Third Party Insurance, Personal Injury or Death as specified in GCC for contract work for project period including DLP.	LS	1				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
5	504	Provide, operate and maintain Quality Control Laboratory including equipment, accessories and consumables for both field testing facilities and off-site test with manpower as per specification and instruction of Engineer all complete (SS/SP-504,511,503)	Months	15				
6		Supply, Operate and maintain the work for operation and maintenance of traffic diversion and management as per Instruction of Engineer and specification	LS	1				
7	110	Supplying and erecting 1.2m.x 1.8 m. size Project sign board in place including 50mm dia. Steel tube, 2mm. thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. all complete as per instruction of Engineer and specification	Nos.	2.00				
8		Provide Occupational Health and Safety Equipment, First aid tools and medicine for the Engineers and Labors/supervisors/ staff of the Contractor as per Instruction of Engineer	Months	15.00				
9		Provide and establish the labor camps & adequate drinking water facility and toilets for labors and demolish camp site and re-instate the ground as per specifications and as instructed by Engineer.	LS	1.00				
<b>C</b>	<b>Site Clearance</b>							

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
10	201	Providing for Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable Material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness(SP-201) as per instruction of Engineer and specification	Sqm	25140				
11	202	Dismantling of existing structures of Random Rubble Masonry with Cement Mortar (i.e. stone masonry structures, brick masonry structures, concrete structures, reinforcement structures, gabion structures, different diameter of pipe and types, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification.	Cum.	90				
12	202	Dismantling of existing structures of Masonry with Cement Mortar (i.e. stone masonry structures and brick masonry structures, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification.	Cum.	37.5				



Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
13	20	Dismantling of existing structures Cement Concrete Grade M-15 and M-20 (i.e. concrete structures, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification	Cum.	15				
14	202	Providing and Dismantling of existing structures of gabion structures with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification	Cum.	40				
15	202	Dismantling of existing structures of Water Supply Pipe (up to 600mm dia. (i.e. different diameter of pipe and types, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification	Rm	6400				
<b>D</b>	<b>Earthwork</b>							
16	905	Providing of Earth work excavation for Back cutting / Grade cutting in all type of soil and rock including disposal upto 100 m and lift upto 1.5 m etc. all complete as per instruction of Engineer and specification.	Cum.	17687.37				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
17	905	Providing of Structure foundation excavation in all types of soil/rock by mechanical means as per drawing and technical specification, including removal of stumps and other deleterious matter, with all lifts and lead as drawing and instruction of engineer.	Cum.	709.72				
18	909 and 910	Providing, laying, spreading and compacting of filling/backfilling works with material deposited including transport from roadway cutting as per Drawing & Technical Specifications and instruction of Engineer	Cum.	17687.37				
19	910 and 910	Providing, transporting, laying, spreading and compacting of filling/backfilling works with borrow material as per Drawing & Technical Specifications and instruction of Engineer	Cum.	27564.87				
20	908	Providing, transporting, laying, spreading and compacting for backfilling works for the structures with approved suitable material all complete as per specification and engineer's Instruction	Cum.	3034.36				
<b>E</b>	<b>Pavement work</b>							

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
21	1003 and 1005	Providing, Loosening, leveling and Compacting for the sub-grade work on existing ground conditions to facilitate placement of first layer of sub-base, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve dry density as per Drawing & Technical Specifications and instruction of Engineer	Sqm	72079.4				
22	1201	Providing, transporting, laying, spreading, leveling, and compacting of granular sub-base to achieve the desired density, all complete as per Drawing & Technical Specifications and instruction of Engineer.	Cum.	14302.88				
23	1204	Providing, transporting, laying, spreading, leveling and compacting of base work (Crusher Run Macadam) as per Drawing & Technical Specifications and instruction of Engineer	Cum.	10727.16				
24	1302	Providing, transporting, laying and spreading of prime coat (MC 30 / 70 Hot Bitumen (including cutter)) including cleaning of prime coat surface and spraying by mechanical means as per Technical Specification and instruction of Engineer	litre	65445.4				
25	1302	Providing, transporting, laying and spreading of tack coat including cleaning of tack coat surface and spraying by mechanical means as per Technical Specification and instruction of Engineer	litre	45811.78				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
26	1307, 1308 and 1309	Providing, transporting, laying, spreading by mechanical means in required thickness and compacting of Asphalt concrete work as per Drawing & Technical Specifications and instruction of Engineer	Cum.	2640.38				
<b>F</b>	<b>Structure Works Side Drainage and Cross Drainage Work</b>							
	<b>1006</b>	Providing, laying, transporting, compacting and leveling of Dry Stone Soling for structures foundation all complete as per specification and directed by the Engineer	cum.	147.6				
27	908	Providing, laying, transporting, compacting and leveling of Granular Material (Mixed river bed material) for structures foundation all complete as per specification and directed by the Engineer	Cum.	1786.6				
28	2000 and 3109	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M10/40 all complete as per specification and directed by the Engineer	Cum.	94.89				
29	2000 and 3109	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M15/40 all complete as per specification and directed by the Engineer	Cum.	225.26				
30	2000 and 3109	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M20/20 all complete as per specification and directed by the Engineer	Cum.	4728.02				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
31	2000 and 3109	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M25/20 all complete as per specification and directed by the Engineer	Cum.	670.19				
32	2014	Providing and transporting of reinforcement work including cutting, bending, binding, fixing in position etc. all complete as per drawing & specification and instruction of Engineer	MT	383.23				
33	2602,2603 & 2608	Providing, transporting and laying of Stone Masonry work in 1:4 cement mortar including HDPE Pipe Dia 100mm, in weep whole as where applicable all complete as per Drawing & Technical Specifications and instruction of Engineer.	Cum.	166.95				
	2421	Providing and placing concrete with 60% M 15/40 concrete and 40% boulders/stones as per specification, using concrete mixer and vibrator. Including formworks	Cum.	225				
34	2401	Supplying, transporting, providing of Machine Made Gabion boxes / mattresses with diaphragms including rolling, cutting weaving and stone filling all complete as per specification. Salvage wire 3.9mm, Mesh Wire 3.0mm and Hexagonal Mesh size 100x120 mm all complete as per Engineers direction	Cum.	3198.75				
35	2404	Providing, supplying and laying of a geotextile work as per Drawing & Technical Specifications and instruction of Engineer	Sqm	1264.2				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
36	908	Providing, transporting for Carry out backfilling works behind the structures with approved suitable material including spreading in layers, watering and compaction complete as per specification and engineer's Instruction;	Cum.	137.33				
37	701.00	Providing, Supplying, transporting, and laying of 600 mm Dia. NP3 concrete pipe including fixing, jointing with cement mortar 1:2 ratio as per drawing & specification and instruction of Engineer	Rm	62.5				
38	701.00	Providing, Supplying, transporting, and laying of 900mm Dia. NP3 concrete pipe including fixing, jointing with cement mortar 1:2 ratio as per drawing & specification and instruction of Engineer.	Rm	62.5				
39	701.00	Providing, Supplying, transporting, and laying of 1200mm Dia. NP3 concrete pipe including fixing, jointing with cement mortar 1:2 ratio as per drawing & specification and instruction of Engineer	Rm	25				
40		Providing, Supplying, transporting, and laying of water supply pipe (HDPE_6kgf_90mm Dia.) for the water network and drainage network including fixing, jointing with leveling as per drawing & WSS technical specification and instruction of Engineer	Rm	4752.9				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
41		Providing, Supplying, transporting, and laying of water supply pipe (HDPE_10kgf_50mm Dia.) for the water network and drainage network including fixing, jointing with leveling as per drawing & WSS technical specification and instruction of Engineer	Rm	11061.6				
<b>G</b>	<b>Bio-Engineering</b>							
42	2802, 2807	Providing, Supplying and Planting rooted grass slips on slopes <45° including preparation of slips on site. Operation includes digging planting hole to a max of 5 cm depth with metal rod or hardwood peg, depending on nature of soil. The planting drills should be spaced 10 cm apart. As per specification and instruction of Engineer	Sq.m	2100				
43	2802, 2807	Providing, Supplying and Laying of live fascines, using live 'hardwood cuttings of selected species(eg assuro, namdi phul, simali) of minimum 1m length placed in bundles to give 4 running meters of fascine, including back filling cutting per 'of trench and careful compaction. As per specification and instruction of Engineer	RM	450				
44	2802, 2807	Providing, Supplying, preparation and planting of live pegs selected species(e.g. assuro, namdi phul, simali)of minimum length to 0.5 m depth into soft debris. Pegs spaced at 5- centers within rows, and interwoven with vegetation. As per specification and instruction of Engineer	Rm	425				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
45	2802, 2807	Providing, Seedlings, planting, transportation, watering and all complete of plantation of tree including pit distance determination (1600 pits per hectare), pit digging (1600 pits per hectare (pit size 45 cmx 30 cmx 30 cm) pit distance 2.5 meter x 2.5 meter center to center), transportation of plant from source to site, transportation by manually within the site area, organic fertilizer and as per drawings & specification and instruction of Engineer.	No.	594				
46		Providing, Supplying and sprinkling as per specification and instruction of Engineer	Hr.	55.52				
<b>H</b>	<b>Road Furniture's and traffic safety</b>							
47	1501	Providing, Supplying and erecting traffic sign in place including 50cm dia. Steel tube, 2mm, thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. complete as per specification and instruction of Engineer 60cm. Dia. Circular, (60cm. equilateral triangle and 60cm.x 45cm. rectangular shaped sign (single post))	No	77				
48	1501	Providing, Supplying and erecting traffic sign in place including 50cm dia. Steel tube, 2mm, thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. complete as per specification and instruction of Engineer 60cm. Dia. Circular, (1.2m.x 0.75m. Size bigger traffic sign with back support and two or more post)	No	4				

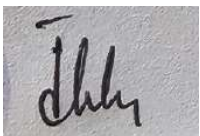


Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
49	1507	Providing, Supplying and fixing in place R.C.C. delineator and guard post including excavation, back filling, painting and erection etc. all complete as per drawing & specification and instruction of Engineer	No	100				
50	1504	Providing, Supplying for Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface, On smooth surface (similar to Asphalt concrete and rigid pavement), and laying of hot applied thermoplastic compound at least 2 mm thick including reflectorizing glass beads as per DOR Traffic sign manual/ Specifications .The finished surface to be level, uniform and free from streaks and holes. As per instruction of Engineer	Sqm	4252.55				
51	1503	Providing, supplying and placing R.C.C kilometer post including excavation, back filling, painting and writing etc. all complete as per specification and instruction of Engineer (Placed at each km)	No	7				
52	1503	Providing, supplying and placing R.C.C kilometer post including excavation, back filling, painting and writing etc. all complete as per specification and instruction of Engineer (Placed at each 5 km)	No	2				

Item No.	SOR	Description of works	Unit	Quantity	Rate in NRs.		Amount (NRs.)	Remarks
					in Figure	in Words		
53	1401	Providing, transporting and laying M 20/20 Precast or Cast in situ concrete in kerbs with 12mm thick 1:3 cement sand mortar bedding and joints including foundation excavation levelling etc. but excluding foundation concrete or sand gravel materials. As per drawings, specification and instruction of Engineer	Rm	16290				
54	1400	Providing, production, transportation, and laying of pre-cast (or cast in site) concrete block for the footpath in M15 concrete of 75mm thick as per specification and instruction of Engineer	Cum.	1517.18				
<b>I</b>	<b>Dayworks</b>							
55		Skilled labor	Day	30				
56		Unskilled labor	Day	120				
57		JCB backhoe/Loader	Hr	10				
58		Tractor	Hr	10				
59		Tipper/Truck 4.6 Cum capacity	Hr	10				
60		Gabion Works	Cum	100				
61		Hume Pipe NP3 600mm	Rm	15				
62		Hume Pipe NP3 900mm	Rm	15				
63		Stone	Cum	4				
64		Sand	Cum	2				
65		Cement	Tones	0.5				
		<b>Grand Total</b>						
		VAT 13% of B						
		<b>Grand Total with VAT</b>						

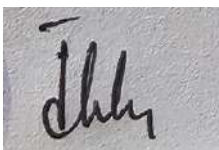
July

# **Part III: CONDITIONS OF CONTRACT AND CONTRACT FORMS**

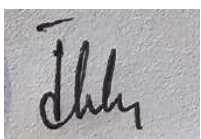
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# Table of Contents

<b>A. General.....</b>	<b>121</b>
1. Definitions.....	121
2. Interpretation.....	122
3. Language and Law.....	123
4. Contract Agreement.....	123
5. Assignment.....	123
6. Care and Supply of Documents.....	123
7. Confidential Details.....	124
8. Compliance with Laws.....	124
9. Joint and Several Liability.....	124
10. Project Manager's Decisions.....	124
11. Delegation.....	124
12. Communications.....	124
13. Subcontracting.....	124
14. Other Contractors.....	125
15. Personnel and Equipment.....	125
16. Employer's and Contractor's Risk.....	125
17. Employer's Risks.....	125
18. Contractor's Risks.....	126
19. Insurance.....	126
20. Site Investigation Reports.....	126
21. Contractor to Construct the Works.....	126
22. The Works to Be Completed within intended Completion Date.....	126
23. Design by contractor and Approval by the Project Manager.....	127
24. Safety, Security and Protection of the Environment.....	127
25. Discoveries.....	129
26. Possession of the Site.....	129
27. Access to the Site.....	130
28. Instructions, Inspections and Audits.....	130
29. Dispute Settlement.....	130
30. Procedures for Disputes.....	130
<b>B. Staff and Labor.....</b>	<b>131</b>
31. Forced Labor.....	131
32. Child Labor.....	131
33. Nondiscrimination and Equal Opportunity.....	131
<b>B. Time Control.....</b>	<b>131</b>
34. Program.....	131
35. Extension of the Intended Completion Date.....	131
36. Acceleration.....	132
37. Delays Ordered by the Project Manager.....	132
38. Management Meetings.....	132
39. Early Warning.....	132
<b>C. Quality Control.....</b>	<b>132</b>
40. Identifying Defects.....	132
41. Tests.....	133
42. Correction of Defects.....	133
43. Uncorrected Defects.....	133
<b>D. Cost Control.....</b>	<b>133</b>
44. Contract Price.....	133
45. Changes in the Contract Price.....	133



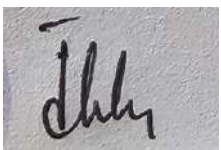
46. Variations .....	133
47. Cash Flow Forecasts .....	134
48. Payment Certificates .....	134
49. Payments .....	134
50. Compensation Events .....	135
51. Tax .....	136
52. Currency.....	136
53. Price Adjustment .....	136
54. Retention .....	137
55. Liquidated Damages .....	138
56. Bonus .....	138
57. Advance Payment .....	138
58. Securities.....	139
59. Dayworks .....	139
60. Cost of Repairs .....	139
<b>F. Force Majeure .....</b>	<b>139</b>
61. Definition of Force Majeure.....	139
62. Notice of Force Majeure .....	140
63. Duty to Minimize Delay .....	140
64. Consequences of Force Majeure.....	140
65. Force Majeure Affecting Subcontractor .....	141
66. Optional Termination, Payment and Release .....	141
67. Release from Performance .....	141
<b>G. Finishing the Contract .....</b>	<b>142</b>
68. Completion .....	142
69. Taking Over .....	142
70. Final Account .....	142
71. Operating and Maintenance Manuals .....	142
72. Termination .....	143
73. Fraud and Corruption.....	143
74. Black Listing .....	144
75. Payment upon Termination .....	144
76. Property.....	144
77. Release from Performance .....	145
78. Suspension of DP Loan/Credit/Grant .....	145
79. Eligibility .....	145
80. Project Manager's Duties and Authorities .....	145
81. Quarries and Spoil Dumps .....	145
82. Local Taxation.....	146
83. Value Added Tax.....	146
84. Income Taxes on Staff .....	146
85. Duties, Taxes and Royalties .....	146
86. Member of Government, etc, not Personally Liable .....	146
87. Approval of Use of Explosives.....	146
89. Permission for Blasting .....	147
90. Records of Explosives.....	147
91. Traffic Diversion .....	147




## Section VIII: General Conditions of Contract

[Name of Employer]

[Name of Contract]

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## General Conditions of Contract

This Section provides the General Conditions of Contract that will apply to the Contract for which the Bidding document is issued.

<b>A. General</b>	
1. Definitions	<p>1.1 Boldface type is used to identify defined terms.</p> <p>(a) The <b>Accepted Contract Amount</b> means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.</p> <p>(b) The <b>Activity Schedule</b> is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.</p> <p>(c) <b>Bill of Quantities</b> means the priced and completed Bill of Quantities forming part of the Bid.</p> <p>(d) <b>Compensation Events</b> are those defined in GCC 50 hereunder.</p> <p>(e) The <b>Completion Date</b> is the date of completion of the Works as certified by the Project Manager, in accordance with GCC 68.1.</p> <p>(f) The <b>Contract</b> is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC 2.3 below.</p> <p>(g) The <b>Contractor</b> is the party whose Bid to carry out the Works has been accepted by the Employer.</p> <p>(h) The <b>Contractor's Bid</b> is the completed bidding document submitted by the Contractor to the Employer.</p> <p>(i) The <b>Contract Price</b> is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.</p> <p>(j) <b>Days</b> are calendar days; months are calendar-months.</p> <p>(k) <b>Dayworks</b> are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.</p> <p>(l) A <b>Defect</b> is any part of the Works not completed in accordance with the Contract.</p> <p>(m) The <b>Defects Liability Certificate</b> is the certificate issued by Project Manager upon correction of defects by the Contractor.</p> <p>(n) The <b>Defects Liability Period</b> is the period calculated from the Completion Date where the Contractor remains responsible for remedying defects.</p> <p>(o) <b>Drawings</b> include calculations and other information provided or approved by the Project Manager for the execution of the Contract.</p> <p>(p) The <b>Employer</b> is the party who employs the Contractor to carry out the Works, as <b>specified in the SCC</b>.</p> <p>(q) <b>Equipment</b> is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.</p> <p>(r) <b>Force Majeure</b> means an exceptional event or circumstance: which is beyond a Party's control; which such Party could not reasonably have provided against before entering into the Contract; which, having arisen, such Party could not reasonably have avoided or overcome; and, which is not substantially attributable to the other</p>

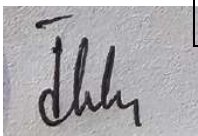




	<p>Party.</p> <p>(s) The <b>Initial Contract Price</b> is the Contract Price listed in the Employer’s Letter of Acceptance.</p> <p>(t) <b>In writing</b> or <b>written</b> means hand written, type written, printed or electronically made, and resulting in permanent record.</p> <p>(u) The <b>Intended Completion Date</b> is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is <b>specified in the SCC</b>. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.</p> <p>(v) <b>Letter of Acceptance</b> means the formal acceptance by the Employer of the Bid and denotes the formation of the contract at the date of acceptance.</p> <p>(w) <b>Materials</b> are all supplies, including consumables, used by the Contractor for incorporation in the Works.</p> <p>(x) <b>Party</b> means the Employer or the Contractor, as the context requires.</p> <p>(y) <b>SCC</b> means Special Conditions of Contract</p> <p>(aa) <b>Plant</b> is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.</p> <p>(bb) The <b>Project Manager</b> is the person <b>named in the SCC</b> (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.</p> <p>(cc) <b>Retention Money</b> means the aggregate of all monies retained by the Employer pursuant to GCC 54.1.</p> <p>(dd) <b>Schedules</b> means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Bids, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices.</p> <p>(ee) The <b>Site</b> is the area defined as such in the SCC</p> <p>(ff) <b>Site Investigation Reports</b> are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.</p> <p>(gg) <b>Specification</b> means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.</p> <p>(hh) The <b>Start Date</b> is given <b>in the SCC</b>. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.</p> <p>(ii) A <b>Subcontractor</b> is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.</p> <p>(jj) <b>Temporary Works</b> are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.</p> <p>(kk) A <b>Variation</b> is an instruction given by the Project Manager which varies the Works</p> <p>(ll) The <b>Works</b> are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as <b>defined in the SCC</b>.</p>
2. Interpretation	2.1 In interpreting these GCC, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries



	<p>about these GCC.</p> <p>2.2 If sectional completion is <b>specified in the SCC</b>, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).</p> <p>2.3 The documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> <li>(a) Contract Agreement,</li> <li>(b) Letter of Acceptance,</li> <li>(c) Letters of Technical Bid and Price Bid,</li> <li>(d) Special Conditions of Contract,</li> <li>(e) General Conditions of Contract,</li> <li>(f) Specifications,</li> <li>(g) Drawings,</li> <li>(h) Bill of Quantities (or Schedules of Prices for lump sum contracts), and</li> <li>(i) Any other document <b>listed in the SCC</b> as forming part of the Contract.</li> </ul>
3. Language and Law	<p>3.1 The language of the Contract and the law governing the Contract are <b>stated in the SCC</b>.</p> <p>1.2. Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer's country when</p> <ul style="list-style-type: none"> <li>(a) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from, or any payments to, a particular country, person, or entity. Where the borrower's country prohibits payments to a particular firm or for particular goods by such an act of compliance, that firm may be excluded.</li> </ul>
4. Contract Agreement	<p>4.1 The Parties shall enter into a Contract Agreement within 15 days after the Contractor receives the Letter of Acceptance, unless the Special Conditions establish otherwise. The Contract Agreement shall be based upon the attached Contract forms in Section X.</p>
5. Assignment	<p>5.1 Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, either Party</p> <ul style="list-style-type: none"> <li>(a) may assign the whole or any part with the prior agreement of the other Party, at the sole discretion of such other Party; and</li> <li>(b) may, as security in favor of a bank or financial institution, assign its right to any moneys due, or to become due, under the Contract.</li> </ul>
6. Care and Supply of Documents	<p>6.1 The Specification and Drawings shall be in the custody and care of the Employer. Unless otherwise stated in the Contract, one copy of the Contract and of each subsequent Drawing shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.</p> <p>6.2 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over by the Employer. Unless otherwise stated in the Contract, the Contractor shall supply to the Engineer six copies of each of the Contractor's Documents.</p>




	<p>6.3 The Contractor shall keep, on the Site, a copy of the Contract, publications named in the Specification, the Contractor's Documents (if any), the Drawings and Variations and other communications given under the Contract. The Employer's Personnel shall have the right of access to all these documents at all reasonable times.</p> <p>6.4 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.</p>
7. Confidential Details	<p>7.1 The Contractor's and the Employer's Personnel shall disclose all such confidential and other information as may be reasonably required in order to verify the Contractor's compliance with the Contract and allow its proper implementation.</p> <p>7.2 Each of them shall treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However, the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects.</p> <p>7.3 Notwithstanding the above, the Contractor may furnish to its Subcontractor(s) such documents, data and other information it receives from the Employer to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this Clause.</p>
8. Compliance with Laws	8.1 The Contractor shall, in performing the Contract, comply with applicable Laws.
9. Joint and Several Liability	9.1 If the Contractor is a joint venture of two or more entities, all such entities shall be jointly and severally liable to the Employer for the fulfillment of the provisions of the Contract, and shall designate one of such persons to act as a leader with authority to bind the joint venture. The contractor shall not handover the responsibility of the contract to any one member or some members of Joint Venture or any other parties, not involved in the contract. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.
10. Project Manager's Decisions	10.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
11. Delegation	11.1 The Project Manager may delegate any of his duties and responsibilities to other people after notifying the Contractor, and may cancel any delegation after notifying the Contractor.
12. Communications	12.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.
13. Subcontracting	13.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. Bidders may propose



	subcontracting up to the percentage of total value of contracts as <b>specified in the SCC</b> . The Sub contractor shall meet the qualification requirement as <b>specified in SCC</b> .
14. Other Contractors	14.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, <b>as referred to in the SCC</b> . The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification
15 Personnel and Equipment	<p>15.1 The Contractor shall employ the key personnel and use the equipment identified in its Bid to carry out the Works, or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.</p> <p>15.2 If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.</p> <p>15.3 If the Employer, Project Manager, or Contractor determines, that any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or other prohibited practices including behavior which breaches the Code of Conduct including SEA/SH/VAW for Workers and Personnel during the execution of the Works, then that employee shall be removed in accordance with Clause 15.2 above.</p> <p>15.4 The Contractor shall commit that the construction sites, campsites, worksites and, the surrounding area will be zero tolerant to SEA/SH, Violence Against children (VAW) and other forms of Gender Based Violence (GBV).</p> <p>15.5 The Contractor shall prepare "Code of Conduct" and SEA/SH Prevention and Response Action Plan, satisfactory to the Project Manager, to ensure that all the labors, employees, associates, consultants or the representatives related to the Employer and the Contractor inside or outside the work sites are committed towards creating and maintaining an environment that prevents SEA/SH/VAC and any other forms of GBV. the contractor shall have the code of conduct signed by each worker, labor, subcontractor, and staff related to the project and provide orientation on the CoC</p>
16. Employer's and Contractor's Risk	16.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.
17. Employer's Risks	<p>17.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:</p> <p>(a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to</p> <p>(i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or</p> <p>(ii) negligence, breach of statutory duty, or interference with any legal</p>

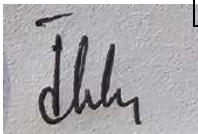


	<p>right by the Employer or by any person employed by or contracted to him except the Contractor.</p> <p>(b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.</p> <p>17.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to</p> <p>(a) a Defect which existed on the Completion Date,</p> <p>(b) an event occurring before the Completion Date, which was not itself an Employer's risk, or</p> <p>(c) the activities of the Contractor on the Site after the Completion Date.</p>
18. Contractor's Risks	18.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.
19. Insurance	<p>19.1 The Contractor shall provide insurance in the joint names of the Employer and the Contractor from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles <b>stated in the SCC</b> for the following events which are due to the Contractor's risks:</p> <p>(a) loss of or damage to the Works, Plant, and Materials;</p> <p>(b) loss of or damage to Equipment;</p> <p>(c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and</p> <p>(d) Personal injury or death.</p> <p>19.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the proportions of Nepalese Rupees required to rectify the loss or damage incurred.</p> <p>19.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.</p> <p>19.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager.</p> <p>19.5 Both parties shall comply with any conditions of the insurance policies.</p>
20. Site Investigation Reports	20.1 The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to <b>in the SCC</b> , supplemented by any information available to the Contractor.
21. Contractor to Construct the Works	21.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.
22. The Works to Be Completed within	22.1 The Contractor may commence execution of the Works on the Start Date and





intended Completion Date	<p>shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them within the intended Completion Date.</p> <p>22.2 The Contractor shall not carry out any Works, including mobilization and/or pre-construction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits), unless the Project Manager is satisfied that appropriate plans and measures are in place to address environmental, social, health and safety risks and impacts. At a minimum, the Contractor shall apply the (i) Contractor's Environmental and Social Management Plan (C-ESMP), and (ii) Code of Conduct including SEA/SH/VAW for Workers and Personnel, submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit, on a bi-monthly basis, for the Project Manager's prior approval, status of compliance to the plans as are necessary to manage the ESHS risks and impacts of ongoing works. The C-ESMP shall be approved prior to the commencement of construction activities (e.g. excavation, earth works, structure works, stream and road diversions, quarrying or extraction of materials, concrete batching and asphalt manufacture). The approved C-ESMP shall be reviewed, periodically (but not less than every six (6) months), and updated in a timely manner, as required, by the Contractor to ensure that it contains measures appropriate to the Works activities to be undertaken. The updated C-ESMP shall be subject to prior approval by the Project Manager.</p>
23. Design by contractor and Approval by the Project Manager	<p>23.1 The contractor shall be responsible for the design of permanent works as <b>specified in SCC</b>.</p> <p>23.2 Contractor shall be responsible for design of the Temporary Works. The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.</p> <p>23.3 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, shall be subject to prior approval by the Project Manager before their use.</p> <p>23.4 The Project Manager's approval shall not alter the Contractor's responsibility for design of temporary works.</p>
24. Safety, Security and Protection of the Environment	<p>24.1 The Contractor shall, throughout the execution, and completion of the works and remedying of any defects therein:</p> <ol style="list-style-type: none"> <li>a. Have full regard for the safety of all persons entitled to be upon the site and keep the site (so 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.</li> <li>b. Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when necessary or required by the Project Manager or by any duly constituted authority, for the protection of the Works of for the safety and convenience of the public or others.</li> <li>c. Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons and community or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.</li> <li>d. Ensure that any cut or fill slopes are planted in grass or other plant cover as soon as possible to protect them from erosion.</li> <li>e. Any spoil or material removed from drains shall be disposed of to designated</li> </ol>




stable tipping areas as directed by the Project Manager.

f. Shall not use fuel wood as a means of heating during the processing or preparation of any materials forming part of the works.

g. The Project Manager shall have the power to disallow any working practice or activity of the Contractor or direct that such practices or activities be modified should the Project Manager consider, on the advice of the relevant Government Departments, that the practices or activities will be harmful to wildlife.

h. Provide on the Site such lifesaving apparatus as may be appropriate and an adequate and easily accessible first aid outfit or such outfits as may be required by any government ordinance, factory act, etc., subsequently published and amended from time to time.

(i) The detailed C-ESMP shall be developed by the Contractor based on the ESIA, ESMF, RF, LMP, SEP, ESMPs and other instruments prepared for the Project and approved from the Project Manager. The Contractor shall not commence any civil works or pre-construction activities (e.g. clearance for haul roads, Site accesses and Work Site establishment, identification of quarries and borrow pits), until the Project Manager has approved the plan.

(j) The Contractor shall ensure that emissions, surface discharges, solid waste and effluent from the Contractor's activities shall not exceed the values stated in the technical Specification for the works, or as prescribed by applicable Laws. Signages will be erected at critical locations including at storage sites of materials to protect the workers and community from accidents

(k) Construction sites in built up areas and alongside the vehicular and pedestrian traffic routes should be fenced to prevent the entry of unauthorized persons.

(l) The fencing mechanism should be developed and approved from the project manager before its application on site. At the temporary construction work sites, where workers are engaged, the Contractor shall have to make standard arrangements for quarters/accommodation/camp, food stuffs, drinking water, separate sanitary facilities for male and female resident workers and other facilities for the workers who do not have residence nearby.

(m) The Contractor shall have to insure all workers engaged in the construction site against accident in the way as prescribed.

(n) The Employer shall ensure that all the measures which are to be applied at every stage of construction work in order to ensure the occupational health and safety of workers. In planning the use of the territory of a construction site, the following shall be indicated:

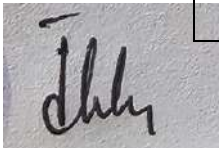
(i) the places for the unloading and storage of material; the places for the storage and disposal or removal of waste and debris. This requirement is particularly important if waste from dangerous chemicals and materials containing such chemicals is generated in the course of the work;

(ii) the obligations and liability of sub- Contractors, the provision of rest rooms and/or accommodation areas for workers;

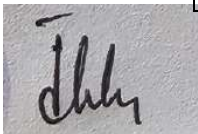
(iii) the measures which are applied in order to ensure the safety of road users in the immediate vicinity of the construction site (if construction activities may endanger road users due to their location or the nature of the work);

(iv) the measures to avoid noise and air pollution in the immediate vicinity of the construction site.

For these all the Contractor should develop and approve the detailed plan and provision from the project manager before implementation;



	<p>(o) Use of standard personal protective equipment (safety gears) is mandatory at the construction site throughout the construction period. The Contractor shall prepare Contractor's Environmental and Social Management Plan (C-ESMP) based on the ESIA, ESMF, ESMP and other instruments prepared for the project, which details the procedures to be adopted to ensure the ESHS requirements are met. The C-ESMP shall establish all of the requirements for effecting and maintaining a safe working environment for persons on the Site, nearby communities and the general public - and the Contractor shall not commence any civil works until approval on the C-ESMP.</p> <p>(p) First aid Provision: The Contractor shall ensure that first aid be provided to workers who have had an accident or have suddenly been taken ill on the site. The Contractor shall designate workers for that purpose and organize appropriate training for them. At least one worker who knows how to provide first aid shall be present on the site while work is being performed. Construction sites shall be equipped with first aid kits fitted with essential first aid equipment, and stretchers, rigid splint sets, eyewash, etc. First aid equipment shall be marked in accordance with the requirements. A construction site shall have an emergency phone. The location of the phone shall be marked. The emergency call number shall be displayed in a visible place. A construction site shall be equipped with a room where first aid can be provided and to where a victim can, if necessary, be removed until the arrival of medical care. This room shall be accessible with a stretcher. If work exposes workers to the risk of drowning, life- saving equipment and a worker who knows how to use the equipment shall be present on the construction site.</p> <p>(q) Hazard analysis shall be conducted periodically that contain the following: Identification of possible hazards for a particular activity, Identification of any company permits or clearances needed prior to the performance of the activity together with the name of person/s who is authorized to issue such permit or clearance, Identification of the proposed improvement in work standard procedures that shall be followed during implementation of a particular activity, Company inspection procedures to ensure safety during the execution of a particular activity, Identification of emergency procedures in case of accidents or any untoward incident while performing a particular activity</p> <p>(r) Pay the minimum wage rate to each worker (labor) as fixed by the project district; ensuring equal wage rates for male and female workers (no gender discrimination for similar nature of works).</p> <p>(s) For monitoring compliance to ESHS including SEA/SH, OCHS and Labor camp requirements, assessment shall be carried out on a bi-monthly basis.</p> <p>(t) Report to the Project Manager any accidents/incidents that are project related within 48 hours of occurrence, including immediate actions taken.</p> <p>(u) The Contractor shall maintain workers' detailed record book with comprehensive information (name, age, address, emergency contact number, etc.) for entire workforce employed in the site and shall provide to Project Manager or other concerned authorities upon request.</p>
25. Discoveries	25.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the employer. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.
26. Possession of the Site	26.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date <b>stated in the SCC</b> , the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.

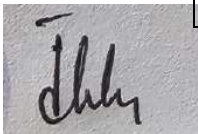





27. Access to the Site	27.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
28. Instructions, Inspections and Audits	<p>28.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.</p> <p>28.2 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and sub consultants to keep accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.</p> <p>28.3 The Contractor shall permit the GoN/the Bank and/or persons appointed by the GoN/the Bank to inspect the Site and/or the accounts and records of the Contractor and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the GoN/the Bank if required by the GoN/the Bank. The Contractor's attention is drawn to Sub-Clause 73.2 which provides, inter alia, that acts intended to materially impede the exercise of the GoN's/the Bank's inspection and audit rights provided for under this Sub-Clause constitute a obstructive practice subject to contract termination.</p> <p>28.4 Pursuant to paragraph 2.2 e. of Appendix to the General Conditions the Contractor shall permit and shall cause its subcontractors and subconsultants to permit, the Bank and/or persons appointed by the Bank to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 3.1 which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).</p>
29. Dispute Settlement	<p>29.1 The Employer and the Contractor shall attempt to settle amicably by direct negotiation any disagreement or dispute arising between them under or in connection with the Contract.</p> <p>29.2 Any dispute between the Parties as to matters arising pursuant to this Contract which cannot be settled amicably within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be referred to Arbitration within 30 days after the expiration of amicable settlement period.</p> <p>29.3 The Employer and the Contractor shall not try to resolve and settle disputes/cases/incidences related to SEA/SH and other forms of GBV. Only upon the consent of the 'survivor'; the Employer and the contractor shall 1) refer the cases immediately to the SEA/SH Grievance Redressal Mechanism (GRM) of the project and, 2) follow the disciplinary action mandated in the SEA/SH code of conduct, as a result of the breach of the Code of Conduct.</p>
30. Procedures for Disputes	30.1 In case of arbitration, the arbitration shall be conducted in accordance with the arbitration procedures in accordance with law of Nepal at the place within the territory of Nepal <b>given in the SCC.</b>



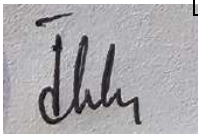
<b>B. Staff and Labor</b>	
31. Forced Labor	31.1 The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty. This covers any kind of involuntary or compulsory labor, such as indentured labor, bonded labor, or similar labor–contracting arrangements.
32. Child Labor	32.1 The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where national laws have provisions for employment of minors, the Contractor shall follow those laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.
33. Non-discrimination and Equal Opportunity	34.1 The Contractor shall not make employment decisions on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment relationship on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employment or retirement, and discipline. In countries where national law provides for non-discrimination in employment, the Contractor shall comply with national law. When national laws are silent on nondiscrimination in employment, the Contractor shall meet this Sub clause's requirements. Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination.
<b>B. Time Control</b>	
34. Program	<p>34.1 Within the time <b>stated in the SCC</b>, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.</p> <p>34.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.</p> <p>34.3 The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period <b>stated in the SCC</b>. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall Provide an updated Activity Schedule within 15 days of being instructed to by the Project Manager.</p> <p>34.4 The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.</p>
35. Extension of the Intended Completion	35.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date




Date	<p>without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.</p> <p>35.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information not later than 14 days after occurrence of such conditions or event. If the Contractor has failed to give early warning of a delay within the period specified hereinabove or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date. Along with full supporting information the contractor shall also submit Performance Security, Advanced Payment Guarantee and insurance Policy with extended validity as well as revised work schedule.</p>
36. Acceleration	<p>36.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.</p> <p>36.2 If the Contractor's priced proposals for acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.</p>
37. Delays Ordered by the Project Manager	<p>37.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.</p>
38. Management Meetings	<p>38.1 Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.</p> <p>38.2 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.</p>
39. Early Warning	<p>39.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.</p> <p>39.2 The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.</p>
<b>C. Quality Control</b>	
40. Identifying Defects	<p>40.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.</p>



41. Tests	41.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.
42. Correction of Defects	<p>42.1 The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at <u>issuance of taking over certificate pursuant to clause 69.2</u>, and is <b>defined in the SCC</b>. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.</p> <p>42.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.</p>
43. Uncorrected Defects	43.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.
<b>D. Cost Control</b>	
44. Contract Price	<p>44.1 In the case of a Unit Rate contract, the Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.</p> <p>44.2 In the case of a lump sum contract, the Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for Materials on Site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.</p>
45. Changes in the Contract Price	<p>45.1 In the case of an Unit Rate contract:</p> <p>(a) If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 2 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change.</p> <p>(b) The Project Manager shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 10 percent, except with the prior approval of the Employer.</p> <p>(c) If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.</p> <p>45.2 In the case of a lump sum contract, the Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor's own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.</p>
46. Variations	<p>46.1 All Variations shall be included in updated Programs, and, in the case of a lump sum contract, also in the Activity Schedule, produced by the Contractor.</p> <p>46.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the</p>

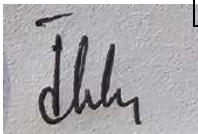



	<p>Project Manager and before the Variation is ordered.</p> <p>46.3 If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.</p> <p>46.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.</p> <p>46.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.</p> <p>46.6 In the case of an Unit Rate contract, if the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in <b>GCC 45.1</b> or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.</p>
47. Cash Flow Forecasts	47.1 When the Program, or, in the case of a lump sum contract, the Activity Schedule, is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast.
48. Payment Certificates	<p>48.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.</p> <p>48.2 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor within 30 days of submission by contractor.</p> <p>48.3 The value of work executed shall be determined by the Project Manager.</p> <p>48.4 The value of work executed shall comprise:</p> <ul style="list-style-type: none"> <li>(a) In the case of an Unit Rate contract, the value of the quantities of work in the Bill of Quantities that have been completed; or</li> <li>(b) In the case of a lump sum contract, the value of work executed shall comprise the value of completed activities in the Activity Schedule.</li> </ul> <p>48.5 The value of work executed shall include the valuation of Variations and Compensation Events.</p> <p>48.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.</p>
49. Payments	49.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest as <b>indicated in the SCC</b> on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made.





	<p>49.2 If an amount certified is increased in a later certificate or as a result of an award by an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.</p> <p>49.3 Items of the Works for which no rate or price has been entered in BOQ shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.</p>
50. Compensation Events	<p>50.1 The following shall be Compensation Events:</p> <ul style="list-style-type: none"> <li>(a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC 26.1.</li> <li>(b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.</li> <li>(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.</li> <li>(d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.</li> <li>(e) The Project Manager unreasonably does not approve a subcontract to be let.</li> <li>(f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.</li> <li>(g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.</li> <li>(h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.</li> <li>(i) The advance payment is delayed.</li> <li>(j) The effects on the Contractor of any of the Employer's Risks.</li> <li>(k) The Project Manager unreasonably delays issuing a Certificate of Completion.</li> </ul> <p>50.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.</p> <p>50.3 As soon as information demonstrating effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.</p>



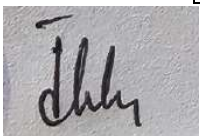

	50.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.
51. Tax	51.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 30 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC 53.
52. Currency	52.1 The currency of Contracts shall be Nepalese Rupees.
53. Price Adjustment	<p>53.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for <b>in the SCC</b>. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due.</p> <p>53.2 Adjustment Formulae<sup>6</sup>: The formulae will be of the following general type:</p> $pn = A + b \frac{Ln}{Lo} + c \frac{Mn}{Mo} + d \frac{En}{Eo} + etc.$ <p>Where:</p> <p><i>pn</i> 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 Clause 49;</p> <p><i>A</i> is a constant, specified in the Bidding Forms- Table of Price Adjustment data, representing the nonadjustable portion in contractual payments;<sup>7</sup><i>b, c, d, etc.</i>, coefficients representing the estimated proportion of each cost element (labor, materials, equipment usage, etc.) in the Works or sections thereof, net of Provisional Sums, <b>as specified in the SCC</b>;</p> <p><i>Ln, Mn, En, etc.</i>, are the current cost indices or reference prices of the cost elements for month "n," determined pursuant to Sub-Clause 53.4, applicable to each cost element; and</p> <p><i>Lo, Mo, Eo, etc.</i>, are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 53.4</p> <p>53.3 Sources of Indices and Weightings: The sources of indices shall be those listed in the Bidding Forms- Table of Price Adjustment data, as approved by the Project Manager and stated in SCC. Indices shall be appropriate for their purpose and shall relate to the Contractor's proposed source of supply of inputs on the basis of which his Contract shall have been computed. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightings and Source of Indices in the Bidding Forms, which shall be subject to approval by the Project Manager.</p> <p>53.4 Base, Current and Provisional Indices: The base cost indices or prices shall be those prevailing on the day 30 days prior to the latest date for submission</p>

<sup>6</sup> For complex Works involving several types of construction work with different inputs, a family of Formulae will be necessary. The various items of Day work may also require different formulae, depending on the nature and source of the inputs

<sup>7</sup> Insert a figure for factor A only where there is a part of the Contractors' expenditures which will not be subject to fluctuation in cost or to compensate for the unreliability of some indices. A should normally be 0.15. The sum of A, b, c, d, etc., should be one.



	<p>of bids. Current indices or prices shall be those prevailing on the day 30 days prior to the last day of the period to which a particular Interim Payment Certificate is related. If at any time the current indices are not available, provisional indices as determined by the Project Manager will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.</p> <p>53.5 Weightings: The weightings for each of the factors of cost given in the Bidding Forms shall be adjusted if, in the opinion of the Project Manager, they have been rendered unreasonable, unbalanced or inapplicable as a result of varied or additional work already executed or instructed under Clause 46 or for any other reason.</p>
	<p>53.6 Where, price adjustment provision is not applicable pursuant to Sub-clause 53.1 then the Contract is subject to price adjustment only for construction material in accordance with this clause. If the prices of the construction materials stated in the contract is increased or decreased in an unexpected manner in excess of ten (10%) percent in comparison to the base price construction material stated in Section –IV, Bidding Forms-Table of Price Adjustment Data, then the price adjustment for the increase or decrease of price of the construction material beyond 10% shall be made by applying the following formulas:</p> <p>For unexpected increase in price</p> $P = [R_1 - (R_0 \times 1.10)] \times Q$ <p>For unexpected decrease in price P</p> $= [R_1 - (R_0 \times 0.90)] \times Q$ <p>Where:</p> <p>“P” is price adjustment amount</p> <p>“R<sub>1</sub>” is the present price of the construction material (Source of indices shall be those listed in the Bidding forms)</p> <p>“R<sub>0</sub>” is the base price of the construction material</p> <p>“Q” is quantity of the construction material consumed in construction during the period of price adjustment consideration If the Base price and source is to be proposed by the Bidder as per the provision made in Section –IV, Bidding Forms-Table of Price Adjustment Data then the Base price and source filled by Bidder for the construction material stated in the Bidding Form shall be subject to the approval of the Project manager and shall be as <b>stated in SCC.</b></p> <p>53.7 VOID.</p> <p>53.8 The Price Adjustment provision shall not be applicable for delayed period if the contract is not completed in time due to the delay caused by the contractor or the contract is a Lump sum Contract</p>
54. Retention	<p>54.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the SCC until Completion of the whole of the Works.</p> <p>54.2 Upon the issue of a Defects Liability Certificate by the Project Manager, <b>in accordance with GCC 70.1</b>, half the total amount retained shall be repaid to the Contractor and half when the Contractor has submitted the evidence of</p>






	<p>submission of tax return to the concerned Internal Revenue Office.</p> <p>54.3 The Contractor may substitute retention money with an unconditional bank guarantee issued from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law if:</p> <p>(a) at least eighty (80) percent of the whole works have been completed,</p> <p>(b) progress of the works is satisfactory in accordance with the Contract as per approved work schedule, and</p> <p>(c) it can be assured that the works can be completed at the intended completion date.</p> <p>54.4 If retention money is substituted by bank guarantee in accordance with clause 54.2, the bank guarantee shall be submitted either using the Retention Money Security Form included in Section X (Contract Forms) or in another Form acceptable to the employer. The validity of the bank guarantee shall be at least one month more than the end of defect liability period.</p>
<p>55. Liquidated Damages</p>	<p>55.1 The Contractor shall pay liquidated damages to the Employer at the rate per day <b>stated in the SCC</b> 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 <b>defined in the SCC</b>. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.</p> <p>55.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager 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 GCC.49</p>
<p>56. Bonus</p>	<p>56.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day <b>stated in the SCC</b> for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.</p>
<p>57. Advance Payment</p>	<p>57.1 The Employer shall make advance payment to the Contractor of the amounts stated in the SCC in two equal installments by the date <b>stated in the SCC</b>, against provision by the Contractor of an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal. in a form acceptable to the Employer in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.</p> <p>57.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the</p>



	<p>Project Manager.</p> <p>57.3 The advance payment shall be repaid by deducting proportionate amounts, <b>as stated in SCC</b>, from payments otherwise due Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.</p>
58. Securities	<p>58.1 The Performance Security, including any additional security required as per ITB 35.5 and ITB 40.1, and <b>if required in the SCC</b>, the Environmental and Social Performance Security, shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount <b>specified in the SCC</b>, by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal acceptable to the Employer, and denominated in Nepalese Rupees. The Performance Security shall be valid until a date 30 days from the date of issue of the Defect Liability Certificate in the case of a bank guarantee.</p> <p>Any additional performance security required as per ITB 35.5 shall be valid until a date 30 days from the date of issue of the certificate of Completion in the case of a bank guarantee.</p> <p>Any additional performance security required as per ITB 40.1 shall be valid until a date 30 days from the date of issue of the certificate of DLP in the case of a bank guarantee.</p> <p>58.2 The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.</p>
59. Dayworks	<p>59.1 If applicable, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.</p> <p>59.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.</p> <p>59.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.</p>
60. Cost of Repairs	<p>60.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.</p>
<b>F. Force Majeure</b>	
61. Definition of Force Majeure	<p>61.1 In this Clause, "Force Majeure" means an exceptional event or circumstance,</p> <ul style="list-style-type: none"> <li>(a) which is beyond a Party's control;</li> <li>(b) which such Party could not reasonably have provided against before entering into the Contract;</li> <li>(c) which, having arisen, such Party could not reasonably have avoided or overcome; and</li> <li>(d) which is not substantially attributable to the other Party.</li> </ul>



	<p>61.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:</p> <ul style="list-style-type: none"> <li>(a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;</li> <li>(b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war;</li> <li>(c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;</li> <li>(d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity; and</li> <li>(e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.</li> </ul>
<p>62. Notice of Force Majeure</p>	<p>62.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.</p> <p>62.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.</p> <p>62.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.</p>
<p>63. Duty to Minimize Delay</p>	<p>63.1 Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of the Contract as a result of Force Majeure.</p> <p>63.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.</p>
<p>64. Consequences of Force Majeure</p>	<p>64.1 If the Contractor is prevented from performing its substantial obligations under the Contract by Force Majeure of which notice has been given under GCC 62, and suffers delay and/or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to GCC 30 to</p> <ul style="list-style-type: none"> <li>(a) an extension of time for any such delay, if completion is or will be delayed, under GCC35 ; and</li> <li>(b) if the event or circumstance is of the kind described in sub-paragraphs (a) to (d) of GCC 61.2 and, in the case of subparagraphs (b) to (d), occurs in the Country, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destructed</li> </ul>



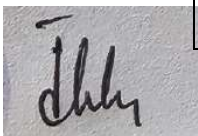
	<p>by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC 19.</p>
	<p>64.2 After receiving this notice, the Project Manager shall proceed in accordance with GCC 10 to agree or determine these matters.</p>
65. Force Majeure Affecting Subcontractor	<p>65.1 If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's nonperformance or entitle him to relief under this Clause.</p>
66. Optional Termination, Payment and Release	<p>66.1 If the execution of substantially all the Works in progress is prevented for a continuous period of 90 days by reason of Force Majeure of which notice has been given under GCC 62, or for multiple periods which total more than 150 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with GCC 72.5.</p>
	<p>66.2 Upon such termination, the Project Manager shall determine the value of the work done and issue a Payment Certificate, which shall include</p> <ul style="list-style-type: none"> <li>(a) the amounts payable for any work carried out for which a price is stated in the Contract;</li> <li>(b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Employer when paid for by the Employer, and the Contractor shall place the same at the Employer's disposal;</li> <li>(c) other Costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;</li> <li>(d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and</li> <li>(e) the Cost of repatriation of the Contractor's staff and labor employed wholly in connection with the Works at the date of termination.</li> </ul>
67. Release from Performance	<p>67.1 Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises, which makes it impossible or unlawful for either or both Parties to fulfill its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance,</p> <ul style="list-style-type: none"> <li>(a) the Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract; and</li> </ul>



	(b) the sum payable by the Employer to the Contractor shall be the same as would have been payable under GCC 66 if the Contract had been terminated under GCC 66.
<b>G. Finishing the Contract</b>	
68. Completion	<p>68.1 The Contractor shall request the Project Manager to issue a certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the work is completed.</p> <p>68.2 In addition to the other provisions, before acceptance of the completed works, Employer shall verify and assure that such works are within the set objective, quality and appropriate to operate and use.</p>
69. Taking Over	<p>69.1 In the contractor's Opinion, if the works are complete and ready for taking over, the contractor may apply by notice to the Project Manager for a Taking-Over Certificate. If the Works are divided into Sections, the Contractor may similarly apply for a Taking-Over Certificate for each Section.</p> <p>69.2 The Project Manager shall, within 30 days after receiving the Contractor's application:</p> <p>(a) issue the Taking-Over Certificate to the Contractor if physical progress of works is at least ninety (90) percent in accordance with the Contract except for any minor outstanding work and defects (as listed in the Taking-Over Certificate) which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or</p> <p>(b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.</p> <p>69.3 If the Engineer fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially completed in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on the last day of that period.</p>
70. Final Account	<p>70.1 The Contractor shall supply the Project Manager with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 60 days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 60 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.</p>
71. Operating and Maintenance Manuals	<p>71.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the <b>dates stated in the SCC</b>.</p> <p>71.2 If the Contractor does not supply the Drawings and/or manuals by the dates <b>stated in the SCC</b> pursuant to <b>GCC 71.1</b>, or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount <b>stated in the SCC</b> from payments due to the Contractor.</p>



72. Termination	<p>72.1 The Employer may terminate the Contract at any time if the contractor;</p> <ol style="list-style-type: none"> <li>a. does not commence the work as per the Contract,</li> <li>b. abandons the work without completing,</li> <li>c. fails to achieve progress as per the Contract.</li> </ol> <p>72.2 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.</p> <p>72.3 Fundamental breaches of Contract shall include, but shall not be limited to, the following :</p> <ol style="list-style-type: none"> <li>(a) The Contractor uses the advance payment for matters other than the contractual obligations,</li> <li>(b) the Contractor stops work for 30 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;</li> <li>(c) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days;</li> <li>(d) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation.</li> <li>(e) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 90 days of the date of the Project Manager's certificate;</li> <li>(f) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;</li> <li>(g) the Project Manager gives two consecutive Notices to update the Program and accelerate the works to ensure compliance with GCC Sub clause 22.1 and the Contractor fails to update the Program and demonstrate acceleration of the works within a reasonable period of time determined by the Project Manager;</li> <li>(h) the Contractor does not maintain a Security, which is required;</li> <li>(i) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, <b>as defined in the SCC</b>; and</li> <li>(j) If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract, pursuant to GCC 73.1.</li> </ol> <p>72.4 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC 72.3 above, the Project Manager shall decide whether the breach is fundamental or not.</p> <p>72.5 Notwithstanding the above, the Employer may terminate the Contract for convenience.</p> <p>72.6 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.</p>
73. Fraud and Corruption	<p>73.1 If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 15 days notice to the</p>






	<p>Contractor, terminate the Contractor's employment under the Contract and expel him from the Site.</p> <p>73.2 Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with GCC Clause 15.</p> <p>For the purposes of this GCC 73;</p> <p>(i) “corrupt practice” is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party.</p> <p>(ii) “fraudulent practice”<sup>5</sup> is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;</p> <p>(iii) “collusive practice”<sup>6</sup> is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;</p> <p>(iv) “coercive practice”<sup>7</sup> is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;</p> <p>(v) “obstructive practice” is</p> <p>(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or</p> <p>(bb) acts intended to materially impede the exercise of the GON’s/DP’s inspection and audit rights provided for under GCC28.3.</p>
74.	VOID
75. Payment upon Termination	<p>75.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as <b>specified in the SCC</b>. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.</p> <p>75.2 If the Contract is terminated for the Employer’s convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor’s personnel employed solely on the Works, and the Contractor’s costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.</p> <p>75.3 If the Contract is terminated because of fundamental breach of Contract or for any other fault by the Contractor, the performance security shall be forfeited by the Employer.</p>
76. Property	76.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated

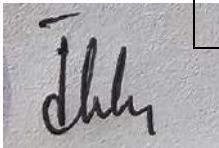


	because of the Contractor's default.
77. Release from Performance	77.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.
78. Suspension of DP Loan/Credit/Grant	78.1 In the event that the DP suspends the loan/ credit/grant to the Employer from which part of the payments to the Contractor are being made: <ul style="list-style-type: none"> <li>a. the Employer is obligated to notify the Contractor of such suspension within 7 days of having received the DP's suspension notice; and</li> <li>b. if the Contractor has not received sums due him within the 30 days for payment provided for in GCC 49.1, the Contractor may immediately issue a 15-day termination notice.</li> </ul>
79. Eligibility	79.1 The Contractor shall have the nationality of an eligible country as specified in Section V of the bidding document. The Contractor shall be deemed to have the nationality of a country if the Contractor is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
	79.2 The materials, equipment, and services to be supplied under the Contract shall have their origin in eligible source countries as specified in Section V of the bidding document and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, the Contractor may be required to provide evidence of the origin of materials, equipment, and services.
	79.3 For purposes of GCC 79.2, "origin" means the place where the materials and equipment are mined, grown, produced, or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.
80. Project Manager's Duties and Authorities	80.1 The Project Manager's duties and authorities are restricted to the extent as <b>stated in the SCC.</b>
81. Quarries and Spoil Dumps	81.1 Any quarry operated as part of this Contract shall be maintained and left in a stable condition without steep slopes and be either refilled or drained and be landscaped by appropriate planting. Rock or gravel taken from a river shall be removed over some distance so as to limit the depth of material removed at any one location, not disrupt the river flow or damage or undermine the river banks. The Contractor shall not deposit excavated material on land in Government or private ownership except as directed by the Project Manager in writing or by permission in writing of the authority responsible for such land in Government ownership, or of the owner or responsible representative of the owner of such land in private ownership, and only then in those places and under such conditions as the authority, owner or responsible representative may prescribe.





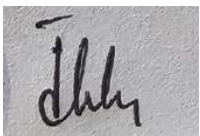
82. Local Taxation	82.1 The prices bid by the Contractor shall include all taxes that may be levied in accordance to the laws and regulations in being in Nepal on the date 30 days prior to the closing date for submissions of Bids on the Contractor's equipment, plant and materials acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the Contract shall relieve the Contractor from his responsibility to pay any tax that may be levied in Nepal on profits made by him in respect of the Contract.
83. Value Added Tax	83.1 The Contract is not exempted from value added tax. An amount specified in the schedule of taxes shall be paid by the Contractor in the concerned VAT office within time frame specified in VAT regulation.
84. Income Taxes on Staff	84.1 The Contractor's staff, personnel and labor will be liable to pay personal income taxes in Nepal in respect of their salaries and wages, as are chargeable under the laws and regulations for the time being in force, and the Contractor shall perform such duties in regard to such deductions as may be imposed on him by such laws and regulations.  84.2 The issue of the Final Account Certificate pursuant to clause GCC 70 shall be made only upon submittal by the Contractor of a certificate of income tax clearance from the Government of Nepal.
85. Duties, Taxes and Royalties	85.1 Any element of royalty, duty or tax in the price of any goods including fuel oil, and lubricating oil, cement, timber, iron and iron goods locally procured by the Contractor for the works shall be included in the Contract rates and prices and no reimbursement or payment in that respect shall be made to the Contractor.  85.2 The Contractor shall familiarize himself with GON the rules and regulations with regard to customs, duties, taxes, clearing of goods and equipment, immigration and the like, and it will be necessary for him to follow the required procedures regardless of the assistance as may be provided by the Employer wherever possible.  85.3 The Contractor shall pay and shall not be entitled to the reimbursement of cost of extracting construction materials such as sand, stone/boulder, gravel, etc. from the river beds or quarries. Such prices will be levied by the local District Development Committee (DDC) as may be in force at the time. The Contractor, sub-contractor(s) employed directly by him and for whom he is responsible, will not be exempted from payment of royalties, taxes or other kinds of surcharges on these construction materials so extracted and paid for to the DDC.
86. Member of Government, etc, not Personally Liable	86.1 No member or officer of GoN or the Employer or the Project Manager or any of their respective employees shall be in any way personally bound or liable for the act or obligations of the Employer under the Contract or answerable for any default or omission in the observance or performance of any of act, matter or thing which are herein contained.
87. Approval of Use of Explosives	87.1 No explosives of any kind shall be used by the Contractor without the prior consent of the Employer in writing and the Contractor shall provide, store and handle these and all other items of every kind whatsoever required for blasting operations, all at his own expense in a manner approved in writing by the Employer.
88 Compliance with Regulations for Explosives	88.1 The Contractor shall comply with all relevant ordinances, instructions and regulations which the Government, or other person or persons having due authority, may issue from time to time regarding the handling, transportation, storage and use of explosives.




89. Permission for Blasting	89.1 The Contractor shall at all times maintain full liaison with and inform well in advance, and obtain such permission as is required from all Government authorities, public bodies and private parties whatsoever concerned or affected, or likely to be concerned or affected by blasting operation.
90. Records of Explosives	90.1 Before the beginning of the Defects Liability Period, the Contractor shall account to the satisfaction of the Project Manager for all explosives brought on to the Site during the execution of the Contract and the Contractor shall remove all unused explosives from the Site on completion of works when ordered by the Project Manager.
91. Traffic Diversion	91.1 The Contractor shall include the necessary safety procedures regarding and pedestrian traffic diversion that is needed in execution of the works. The Contractor shall include in his costing of works, any temporary works or diversion that are needed during the construction period. All traffic diversion should be designed for the safety of both the motoring public and the men at work. It shall ensure the uninterrupted flow of traffic and minimum inconvenience to the public during the period concerned. As such, adequate warning signs, flagmen and other relevant safety precautionary measures shall be provided to warn motorists and pedestrians well ahead of the intended diversion as directed by the Project Manager. All traffic devices used shall be designed in accordance with the instruction of Project Manager.

## APPENDIX TO GENERAL CONDITIONS OF CONTRACT

### Fraud and Corruption




*(Text in this Appendix shall not be modified)*

## **1. Purpose**

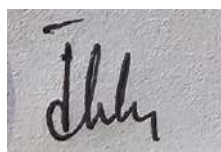
1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

## **2. Requirements**

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
  - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
  - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
  - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
  - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
  - v. "obstructive practice" is:
    - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
    - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or



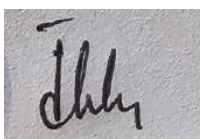
individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;<sup>8</sup> (ii) to be a nominated<sup>9</sup> sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;

- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect<sup>10</sup> all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

<sup>8</sup> For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

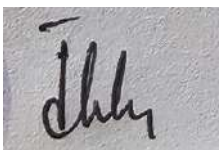
<sup>9</sup> A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

<sup>10</sup> Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.



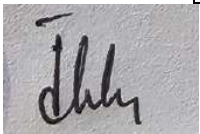

## Section IX: Special Conditions of Contract

The following Special Conditions of Contract shall supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC

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## Special Conditions of Contract

A. General	
GCC 1.1 (p)	The Employer is <b><i>Mechinagar Municipality, Itabhata chowk, Jhapa District</i></b>
GCC 1.1 (u)	The Intended Completion Date for the whole of the Works shall be 455 days after commencement date
GCC 1.1(bb) & 10.1	<p>Contract Manager is: JV of Cosmopolitan Consultant &amp; Technical Education Center P. Ltd.(C2TECH) Joint Venture with Garima International Design Associates Nepal P. Ltd. (GIDAN) In association with GOEC Nepal P. Ltd. &amp; Urban Architects Pvt Ltd, Kathmandu, Nepal</p> <p>Team Leader, Design and Supervision Consultant (DSC).</p> <p>The Project Manager and Engineer are synonyms.</p>
GCC 1.1 (ee)	The Site is located at Mechinagar Municipality, Jhapa District, Koshi Province
GCC 1.1 (hh)	The Start Date shall be 15 days from the date of contract signing
GCC 1.1 (ll)	The Works consist of upgradation of Suryodaya Marga (CH 0+000 to CH 8+380) with two lane carriageway, asphalt pavement, drainage and retaining structures, etc.
GCC 2.2	Sectional Completions are: <b>NA</b>
GCC 2.3(i)	<p>The following documents also form part of the Contract:</p> <p>(i) <b>Contractor's Environmental and Social Management Plan (C-ESMP); and</b></p> <p>(ii) <b>Code of Conduct including SEA/SH/VAC for Workers and Personnel</b></p>
GCC 3.1	<p>The language of the contract is <b>ENGLISH</b></p> <p>The law that applies to the Contract is the law of <b>NEPAL</b></p>
GCC 13.1	<p>Maximum percentage of subcontracting permitted is: <b>25% of the total contract amount</b></p> <p><b>Qualification Criteria</b></p> <p>The proposed sub-contractor shall meet the following requirements:</p> <ol style="list-style-type: none"> <li>1) Completion of 80% of the quantity of the work being sub contracted</li> <li>2) Average Annual Construction Turnover for the work being sub contracted should be at least <math>1.5 * V/T</math> where V is the proposed value of sub contract and T is time in year. For contract duration of up to 1 year, T shall be "1".</li> </ol> <p><b>Financial Resources:</b> The sub contract must demonstrate that it has the financial resources to meet its current contract commitment plus three months' requirements for</p>




	the sub contracted work.
GCC 14.1	Schedule of other contractors: <i>Not Applicable</i>
GCC 19.1	<p>The minimum insurance amounts and deductibles shall be:</p> <ol style="list-style-type: none"> <li>1. The minimum cover for loss of or damage to the Works, Plant and Materials is: <b>115%</b> of the Contract Amount.</li> <li>2. The maximum deductible for insurance of the Works and of Plant and Materials is: <b>0.70%</b></li> <li>3. The minimum cover for loss or damage to <b>immovable</b> Equipment/<b>plants</b> is : <b>100 % (i.e Replacement Cost)</b></li> <li>4. The maximum deductible for insurance of Equipment/<b>plant</b> is:<b>1 % of sum insured.</b></li> <li>5. The minimum <b>cover for loss of or damage to</b> other property is: <b>NRs. 500,000.00</b> with unlimited number of occurrences</li> <li>6. The maximum deductible for insurance of other property is: <b>1 % of sum insured.</b></li> <li>7. The minimum cover for personal injury or death insurance <ol style="list-style-type: none"> <li>i. for the Contractor's employees is that specified in the Labor act of Nepal and</li> <li>ii. for other people is: <b>NRs. 10,00,000.00</b> with an unlimited number of occurrences</li> </ol> </li> </ol>
GCC 20.1	Site Investigation Reports are: <i>Not Applicable</i>
GCC 23.1	The following shall be designed by the Contractor: Not Applicable.
GCC 26.1	The Site Possession Date(s) shall be: <b>15 days from the date of contract signing</b>
GCC 28.4	Pursuant to paragraph 2.2 e. of Appendix to the General Conditions the Contractor shall permit and shall cause its subcontractors and subconsultants to permit, the Bank and/or persons appointed by the Bank to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 3.1 which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).
GCC 30.1	The place of arbitration shall be: Kathmandu, Nepal
<b>C. Time Control</b>	
GCC 34.1	The Contractor shall submit for approval a Program for the Works within 15 days from the date of the Letter of Acceptance.
GCC 34.3	<p>The period between Program updates is 60 (sixty) days.</p> <p>The amount to be withheld for late submission of an updated Program is: <b>NA</b></p>





D. Quality Control	
GCC 42.1	The Defects Liability Period is: 365 days.
E. Cost Control	
GCC 46.2 (Variations)	At the end of 46.2 add after the first sentence: “The Contractor shall also provide information of any ESHS risks and impacts of the Variation.”
GCC 48 (Payment Certificates)	<p>Add new GCC 48.7:</p> <p>“if the Contractor was, or is, failing to perform any ESHS including SEA/SH obligations or work under the Contract, the value of this work or obligation, as determined by the Project Manager, may be withheld until the work or obligation has been performed, and/or the cost of rectification or replacement, as determined by the Project Manager, may be withheld until rectification or replacement has been completed. Failure to perform includes, but is not limited to the following:</p> <ul style="list-style-type: none"> <li>(i) failure to comply with any ESHS including SEA/SH obligations or work described in the Works’ Requirements which may include: working outside site boundaries, excessive dust, failure to keep public roads in a safe usable condition, damage to offsite vegetation, pollution of water courses from oils or sedimentation, contamination of land e.g. from oils, human waste, damage to archeology or cultural heritage features, air pollution as a result of unauthorized and/or inefficient combustion;</li> <li>(ii) failure to regularly review C-ESMP and/or update it in a timely manner to address emerging ESHS issues, or anticipated risks or impacts;</li> <li>(iii) failure to implement the C-ESMP e.g. failure to provide required training or sensitization;</li> <li>(iv) failing to have appropriate consents/permits prior to undertaking Works or related activities;</li> <li>(v) failure to submit ESHS report/s as per agreed format, or failure to submit such reports in a timely manner;</li> <li>(vi) failure to implement remediation as instructed by the Project Manager within the specified timeframe (e.g. remediation addressing non-compliance/s).</li> </ul>
GCC 49.1	<b>5%</b>
GCC 53.1	<p>The Contract <i>is</i> subject to price adjustment, and the following information regarding coefficients <i>does</i> apply.</p> <p>The coefficients and indices for adjustment of prices in Nepalese Rupees shall be as specified in the Table of Adjustment Data submitted by bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.</p>
GCC 53.6	Base Price of Construction Materials applicable for price adjustment shall be as per the Table of Adjustment Data submitted by Bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 54.1	The proportion of payments retained is: 5 (five) percent
GCC 55.1	The liquidated damages for the whole of the Works are 0.05 Percent of the final



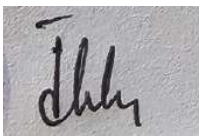


	Contract Price per day. The maximum amount of liquidated damages for the whole of the Works is 10 Percent of the final Contract Price.
GCC 56.1	The Bonus for the whole of the Works is: <b>Not Applicable</b>
GCC 57.1	The Advance Payments shall be: 15 percent of the contract amount and shall be paid in two equal installments. First instalment of <b>7.5%</b> will be paid upon contract signing and furnishing of advance payment guarantee. Remaining <b>7.5%</b> shall be paid upon contractor's full mobilization on site.
GCC 57.3	Deductions from Payment Certificates will commence in the first certificate in which the value of works executed exceeds 30% of the Contract Price. Deduction will be at the rate of 30 percent of the respective Monthly Interim Payment Certificate until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the end of 80 % of the approved contract price.
GCC 58.1	The Performance Security amount is: 5 percent of the contract amount. The Performance Security shall be issued by a bank or surety acceptable to the Employer, and denominated in the types and proportions of the currencies in which the Contract Price is payable.
<b>G. Finishing the Contract</b>	
GCC 71.1	The date by which operating and maintenance manuals are required is; within 60 days from the date of completion
GCC 71.2	The date by which "as built" drawings are required is: <b>is one month after the rectification of all defects as notified.</b> <b>As built Drawing shall be complete IPCs, BOQ, Estimate, Report etc. of both hard and soft copy as per instructed by the engineer.</b>  The amount to be withheld for failing to produce "as built" drawings and/or Operating and maintenance manuals is: <b>NRs. 20,00,000.00</b>
GCC 72.3 (i)	The maximum number of days is: <b>200</b>
GCC 80	The Project Manager has to obtain the specific approval of the Employer for taking any of the following actions :  <ul style="list-style-type: none"> <li>a. Approving subcontracting of any part of the works under General Conditions of Contract Clause 13;</li> <li>b. Certifying additional costs determined under General Conditions of Contract Clause 50;</li> <li>c. Determining start date under General Conditions of Contract Clause 1;</li> <li>d. Determining the extension of the intended Completion Date under General Conditions of Contract Clause 35;</li> <li>e. Issuing a Variation under General Conditions of Contract Clause 1 and 46, except in an emergency situation, as reasonably determined by the Project Manager; emergency situation may be defined as the situation when protective measures must be taken for the safety of life or of the works or of adjoining property.</li> <li>f. Adjustment of rates under General Conditions of Contract Clause 45;</li> </ul>



## Section X: Contract Forms

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.

A square stamp containing a handwritten signature in black ink, appearing to read 'Jhly'.

# Letter of Intent

[on letterhead paper of the Employer]

Date: ... ..

To: .....*Name and address of the Contractor*.....

**Subject: ..... Issuance of letter of intent to award the contract.....**

This is to notify you that, it is our intention to award the contract ... .. *[insert date]* .....for execution of the ... .. *[insert name of the contract and identification number, as given in the Contract Data/SCC]* to you as your bid price ..... *[insert amount in figures and words in Nepalese Rupees]* as corrected and modified in accordance with the Instructions to Bidders is hereby selected as substantially responsive lowest evaluated bid.

Authorized Signature: .....

Name: .....

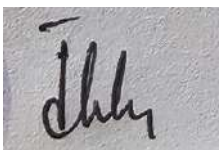
Title: .....

CC:

**[Insert name and address of all other Bidders, who submitted the bid]**

### **[Notes on Letter of Intent**

The issuance of Letter of Intent is the information of the selection of the bid of the successful bidder by the Employer and for providing information to other unsuccessful bidders who participated in the bid as regards to the outcome of the procurement process. This standard form of Letter of Intent to Award should be filled in and sent to the successful Bidder only after evaluation and selection of substantially responsible lowest evaluated bid.]



## Letter of Acceptance [on letterhead paper of the Employer]

Date: .....

To: .....*Name and address of the Contractor*.....

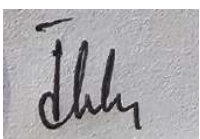
**Subject:** .....*Notification of Award*

This is to notify that your Bid dated .....*date* .....for execution of the.....*name of the contract and identification number, as given in the Contract Data/SCC* ..... for the Contract price of Nepalese Rupees [*insert amount in figures and words in Nepalese Rupees*], as corrected in accordance with the Instructions to Bidders is hereby accepted in accordance with the Instruction to Bidders.

You are hereby instructed to contact this office to sign the formal contract agreement within 15 days with Performance Security of **NRs.** ..... in accordance with the Conditions of Contract, using for that purpose the Performance security Form included in Section X (Contract Forms) of this Bidding Document.

Authorized Signature: .....

Name and Title of Signatory: .....



# Contract Agreement

**THIS AGREEMENT** made the .....day of.....between..... name of the Employer .....(hereinafter “the Employer”), of the one part, and .....name of the Contractor .....(hereinafter “the Contractor”), of the other part:

WHEREAS the Employer desires that the Works known as ..... name of the Contract .....should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects in the sum of NRs .....[insert amount of contract price in words and figures including taxes](hereinafter “the Contract Price”).

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
  - (a) the Letter of Acceptance;
  - (b) the Letters of Technical and Price Bid;
  - (c) the Addenda Nos ..... **Insert addenda numbers if any** .....
  - (d) the Special Conditions of Contract;
  - (e) the List of Eligible Countries that was specified in Section V of the bidding document,
  - (f) the General Conditions of Contract;
  - (g) the Specification;
  - (h) the Drawings;
  - (i) Bill of Quantities (or Schedules of Prices for lump sum contracts), and
  - (j) Table of Price Adjustment Data
  - (k) List of Approved Subcontractors [For GoN funded project]
  - (l) .....[Specify if there are any other document]
3. In consideration of the payments to be made by the Employer to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity 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 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.

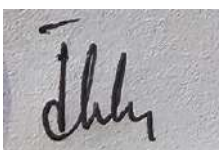
IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Nepal on the day, month and year indicated above.

Signed by .....  
for and on behalf the Contractor in the presence of

Witness, Name Signature, Address, Date

Signed by.....  
for and on behalf of the Employer in the presence of

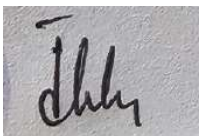
Witness, Name, Signature, Address, Date



## List of Approved Subcontractors

In accordance with GCC Sub-Clause 13.1, The following Subcontractors are approved for carrying out the work as specified below.

<b>Name of Subcontractors</b>	<b>Description of Works</b>	<b>Value/Percentage of subcontract</b>



# Performance Security

(On letterhead paper of the Bank)

..... *Bank's Name, and Address of Issuing Branch or Office* .....

Beneficiary: ..... Name and Address of Employer .....

Date: .....

Performance Guarantee No.:.....

We have been informed that ... .. *[insert name of the Contractor]* (hereinafter called "the Contractor") has been notified by you to sign the Contract No. .... *[insert reference number of the Contract]* for the execution of ..... *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").

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

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

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

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

.....

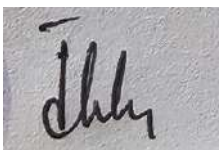
*Seal of Bank and Signature(s)*

Note:

All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.

\* The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract in Nepalese Rupees.

\*\* Insert the date thirty days after the date specified for the Defect Liability Period. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.



# Environmental and Social (ES) Performance Security

## ES Demand Guarantee

*[Guarantor letterhead or SWIFT identifier code]*

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

**Date:** *\_ [Insert date of issue]*

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

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

We have been informed that \_\_\_\_\_ (hereinafter called "the Applicant") has entered into Contract No. \_\_\_\_\_ dated \_\_\_\_\_ with the Beneficiary, for the execution of \_\_\_\_\_ (hereinafter called "the Contract").

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

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

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

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

<sup>1</sup> *The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance and denominated either in the currency (cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.*

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

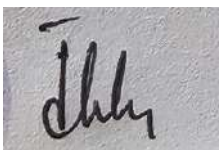




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*[signature(s)]*

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

A handwritten signature in black ink on a light-colored background. The signature is stylized and appears to be 'Jhly'.

# Advance Payment Security

(On letterhead paper of the Bank)

..... **Bank's Name, and Address of Issuing Branch or Office**.....

Beneficiary: ..... **Name and address of employer**

Date : .....

Advance Payment Guarantee No.....

We have been informed that .....has entered into Contract No. .... **Name and Address of Employer**..... **name of the Contractor**.....(hereinafter called "the Contractor")..reference number of the Contract.....dated ..... with you, for the execution of ...contract and brief description of Works ..... (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum..... name of the currency and amount in figures\*...( **amount in words** ..... ) is to be made against an advance payment guarantee.

At the request of the Contractor, we..... . **name of the Bank** ..... hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of.....name of the currency and amount in figures\*..... .( **amount in words** ..... ) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that eighty (80) percent of the Contract Price has been certified for payment, or on the ..... day of .....\*\*, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

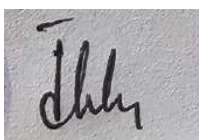
.....  
**Seal of Bank and Signature(s)**

**Note:**

All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.

\*The Guarantor shall insert an amount representing the amount of the advance payment in Nepalese Rupees of the advance payment as specified in the Contract.

\*\* Insert the date Thirty days after the expected completion date. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.



# Retention Money Security

(On letterhead paper of the Bank)

..... *Bank's Name, and Address of Issuing Branch or Office*.....

**Beneficiary:** \_\_\_\_\_ *[Insert name and Address of Employer]*

Date: \_\_\_\_\_ *[Insert date of issue]*

**RETENTION MONEY GUARANTEE No.:** *[Insert guarantee reference number]*

We have been informed that \_\_\_\_\_ *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. \_\_\_\_\_ *[insert reference number of the contract]* dated \_\_\_\_\_ with the Beneficiary, for the execution of \_\_\_\_\_ *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when at least eighty (80) percent of the whole works have been completed, progress of the works is satisfactory in accordance with the Contract as per approved work schedule and it can be assured that the works can be completed at the intended completion date, payment of *[insert the amount of the Retention Money]* is to be made against a Retention Money guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of \_\_\_\_\_ *[insert amount in figures]* ( \_\_\_\_\_ ) *[amount in words]*<sup>1</sup> upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.

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

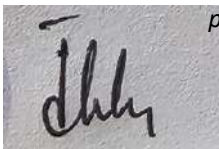
This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

\_\_\_\_\_  
*[Seal of Bank and signature(s)]*

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

<sup>1</sup> \_\_\_\_\_  
*The Guarantor shall insert the amount of the Retention Money.*

<sup>2</sup> \_\_\_\_\_  
*Insert the same expiry date which is 30 days more than the end of Defect Liability Period. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.*



## Annex-1

Table of Price Adjustment Data  
[SCC 53.1]

Code	Index Description	Source of Index*	Base Value and Date	Employer's Proposed Weighting Range (coefficient)	Bidder's Proposed Weighting (coefficient)**
1	2	3	4	5	6
	Non - adjustable (A)			0.15	0.15
	Labor (b)				
	Materials (c)				
	Equipment usage (d)				
		<b>Total</b>			<b>1.00</b>

Note: Base value and Bidder's proposed weighting coefficient to be filled as per "Bid Form of Table of Price Adjustment Data" in Bidding Forms (Section-IV) after verification by the Employer in case of the alternative provision of Bidder proposed value and weighting coefficient.

Table of Price Adjustment Data  
[SCC 53.6]

Code	Construction Material*	Unit	Base Price (NRs/Unit) ** (Ex-factory)	Source (Factory)**
1	2	3	4	5

\*\* For the purpose of calculation of price adjustment, the Ex-factory price of the same source mentioned in the table shall be taken into consideration.

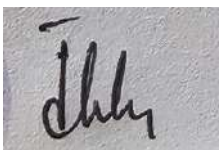
Note: Base Price and source to be filled as per "Bid Form of Table of Price Adjustment Data" in Bidding Forms (Section-IV) after verification by the Employer in case of the alternative provision of Bidder proposed source and base price.



## CODE OF CONDUCT FOR CONTRACTOR

Contractor's Personnel shall:

1. carry out his/her duties competently and diligently;
2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
3. maintain a safe working environment including by:
  - a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
  - b. wearing required personal protective equipment;
  - c. using appropriate measures relating to chemical, physical and biological substances and agents; and
  - d. following applicable emergency operating procedures.
4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. not engage in Sexual Harassment, which means unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
8. not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH);
11. report violations of this Code of Conduct; and
12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the grievance mechanism for Contractor's Personnel or the project's Grievance Redress Mechanism..



## **BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)**


The following non-exhaustive list is intended to illustrate types of prohibited behaviors.

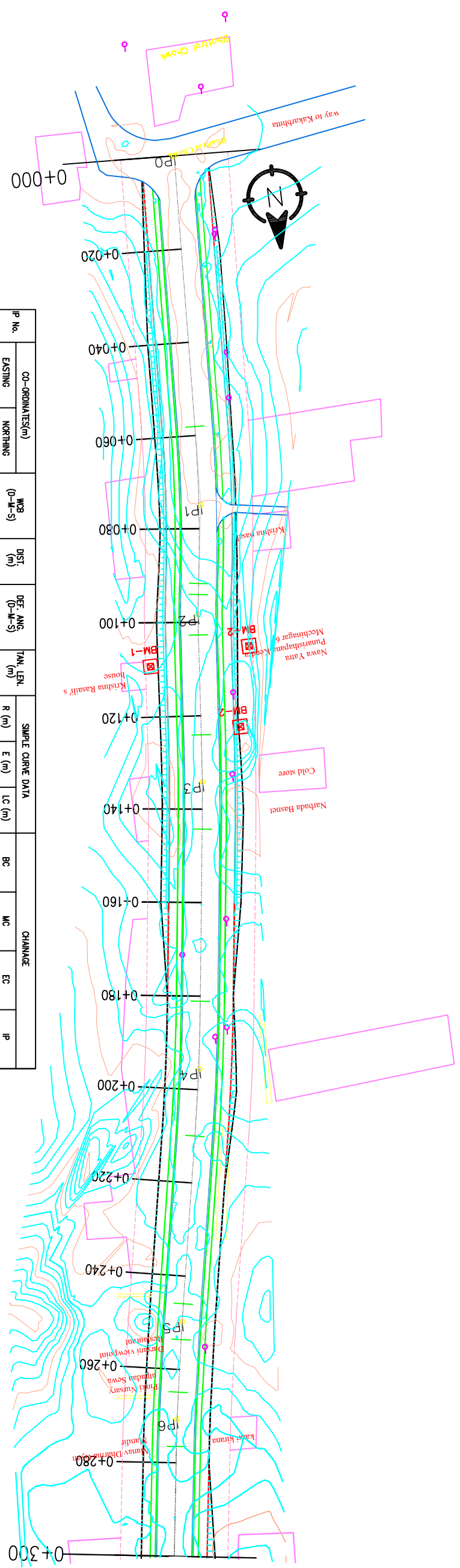
(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Contractor's Personnel tells a member of the community that he/she can get them jobs related to the work site (e.g. cooking and cleaning) in exchange for sex.
- A Contractor's Personnel that is connecting electricity input to households says that he can connect women headed households to the grid in exchange for sex.
- A Contractor's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Contractor's Personnel denies a person access to the Site unless he/she performs a sexual favor.
- A Contractor's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

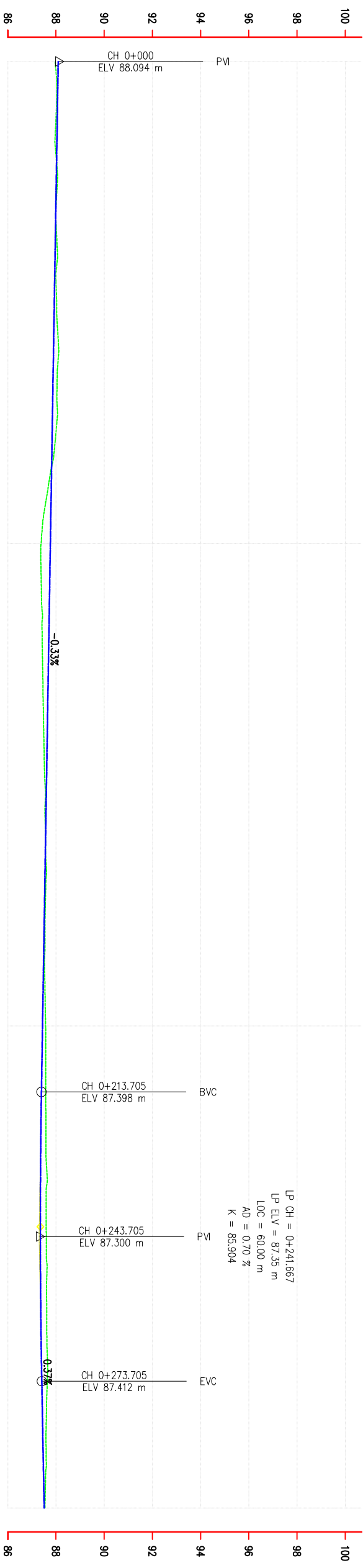
(2) **Examples of sexual harassment in a work context**

- Contractor's Personnel comment on the appearance of another Contractor's Personnel (either positive or negative) and sexual desirability.
- When a Contractor's Personnel complains about comments made by another Contractor's Personnel on his/her appearance, the other Contractor's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Contractor's or Employer's Personnel by another Contractor's Personnel.
- A Contractor's Personnel tells another Contractor's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.





IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DST (m)	DEF. ANG (0-M-S)	TAN. LEN (m)	SIMPLE CURVE DATA			CHAINAGE					
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP		
IP0	615503.608	2948233.124	02-28-47.60	0.000	00-00-00.00	0.000	0.000	0.000	0+000.000	0+000.000	0+000.000	0+000.000	0+000.000	0+000.000	0+000.000
IP1	615506.949	2948307.962	08-29-30.97	74.908	08-00-43.37	16.804	0.441	33.578	0+058.104	0+074.893	0+091.582	0+108.271	0+124.960	0+141.649	0+158.338
IP2	615510.318	2948331.201	05-11-2.59	23.497	02-18-28.38	4.331	0.063	8.660	0+098.043	0+102.703	0+107.363	0+112.023	0+116.683	0+121.343	0+126.003
IP3	615513.553	2948356.858	07-29-53.64	35.803	02-18-51.05	10.089	0.102	20.195	0+124.076	0+134.174	0+144.271	0+154.369	0+164.467	0+174.565	0+184.663
IP4	615521.559	2948427.679	10-48-15.52	61.345	03-18-21.88	14.429	0.208	28.851	0+181.088	0+195.513	0+209.939	0+224.364	0+238.789	0+253.214	0+267.639
IP5	615531.729	2948480.971	09-55-31.96	54.254	00-52-43.56	3.834	0.015	7.669	0+245.929	0+249.764	0+253.599	0+257.434	0+261.269	0+265.104	0+268.939
IP6	615535.334	2948501.572	08-01-8.41	20.913	01-54-23.55	5.824	0.048	11.646	0+264.853	0+270.676	0+276.499	0+282.322	0+288.145	0+293.968	0+299.791



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
88.094	87.972	0+000	
88.061	88.017	0+010	
88.029	88.010	0+020	
87.996	88.004	0+030	
87.964	88.065	0+040	
87.931	88.027	0+050	
87.898	88.119	0+060	
87.866	88.037	0+070	
87.833	87.946	0+080	
87.801	87.621	0+090	
87.768	87.382	0+100	
87.736	87.396	0+110	
87.703	87.429	0+120	
87.671	87.460	0+130	
87.638	87.496	0+140	
87.605	87.550	0+150	
87.573	87.567	0+160	
87.540	87.581	0+170	
87.508	87.541	0+180	
87.475	87.536	0+190	
87.443	87.571	0+200	
87.410	87.576	0+210	
87.378	87.582	0+220	
87.346	87.620	0+230	
87.313	87.593	0+240	
87.281	87.632	0+250	
87.249	87.617	0+260	
87.217	87.655	0+270	
87.185	87.606	0+280	
87.153	87.596	0+290	
87.121	87.541	0+300	

Government of Nepal  
Mehringar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project (NUGIP)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

**SURYADAYAMARGA**  
Suryodaya Marg

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**Plan & Profile**

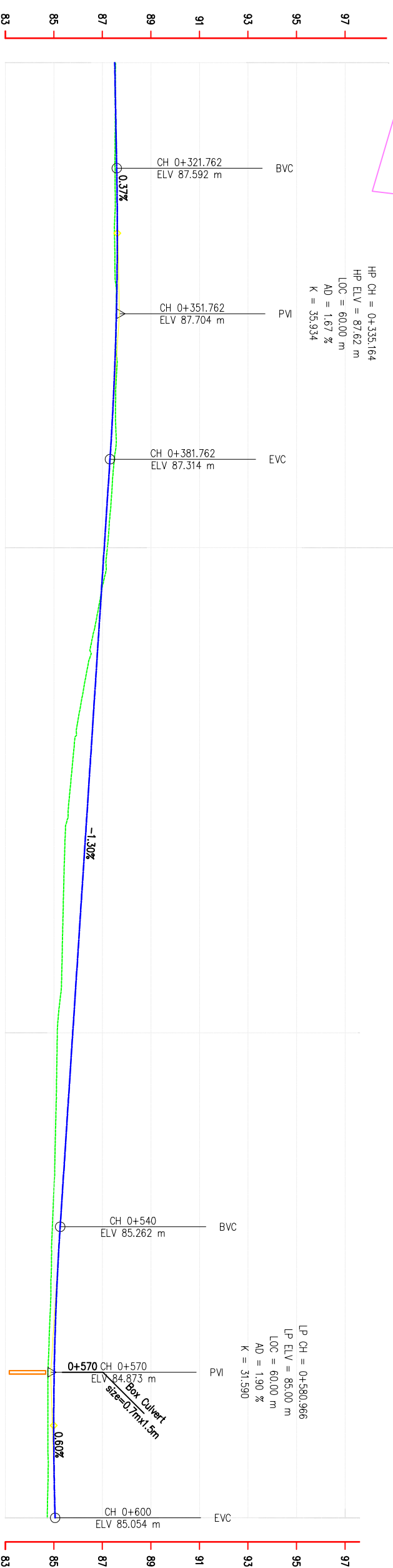
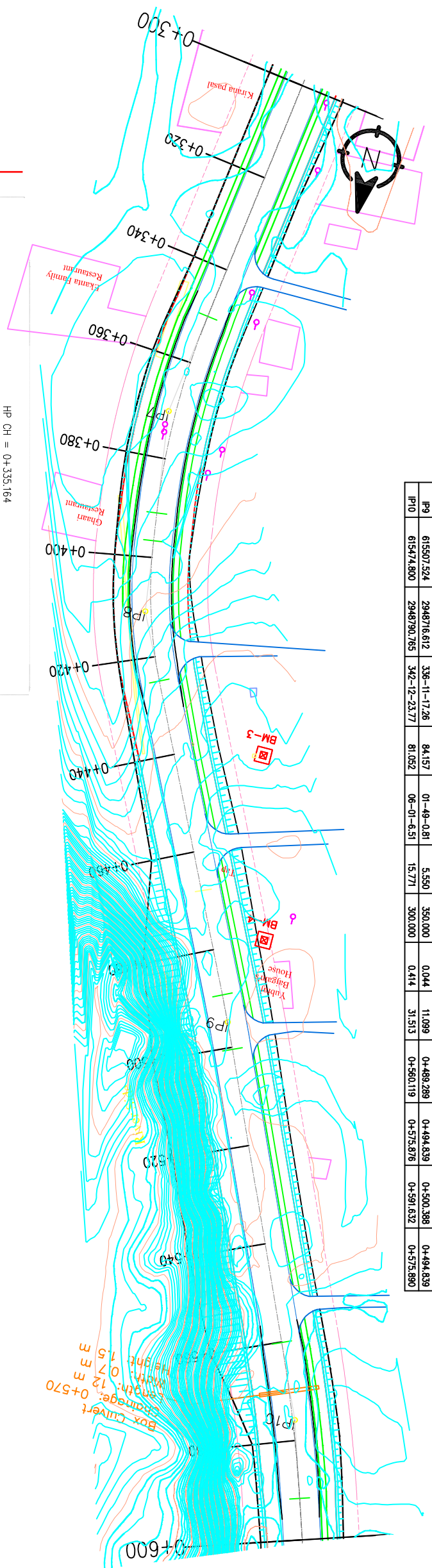
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IP No.	CO-ORDINATES(m)		MCB (0-M-S)	DIST (0-M-S)	DEF. ANG (0-M-S)	TAN. LEN (m)	SIMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
IP6	615535.334	2948501.572	08-01-8.41	20.913	01-94-23.55	5.824	350.000	0.048	11.646	0+264.853	0+270.676	0+276.499	0+270.877	
IP7	615549.285	2948600.605	35-23-30.32	100.011	15-37-38.08	20.584	150.000	1.406	40.912	0+350.103	0+370.559	0+391.015	0+370.877	
IP8	615543.925	2948407.735	33-22-16.45	40.487	18-01-13.87	14.271	90.000	1.124	28.307	0+396.647	0+410.800	0+424.953	0+410.918	
IP9	615507.524	2948716.612	33-11-17.26	84.157	01-49-0.81	5.550	350.000	0.044	11.099	0+488.299	0+494.839	0+500.388	0+494.839	
IP10	615474.800	2948790.765	34-12-23.77	81.052	06-01-6.51	15.771	300.000	0.414	31.513	0+560.119	0+575.876	0+591.632	0+575.890	



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
87.510	87.541	0+300	L=50.103
87.548	87.538	0+310	
87.585	87.519	0+320	
87.613	87.530	0+330	
87.613	87.516	0+340	
87.586	87.575	0+350	
87.531	87.572	0+360	
87.448	87.545	0+370	
87.337	87.538	0+380	
87.208	87.369	0+390	
87.078	87.207	0+400	L=40.912 R=150
86.948	86.931	0+410	
86.819	86.532	0+420	
86.689	86.196	0+430	
86.559	85.855	0+440	
86.430	85.667	0+450	
86.300	85.463	0+460	
86.170	85.409	0+470	
86.041	85.360	0+480	
85.911	85.316	0+490	
85.781	85.144	0+500	L=64.336 R=90
85.651	85.113	0+510	
85.522	85.072	0+520	
85.392	85.023	0+530	
85.262	84.941	0+540	
85.149	84.897	0+550	
85.066	84.831	0+560	
85.016	84.754	0+570	
84.997	84.754	0+580	
85.010	84.768	0+590	
85.054	84.730	0+600	L=59.731 R=300

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
CZTech - GIDAN JV

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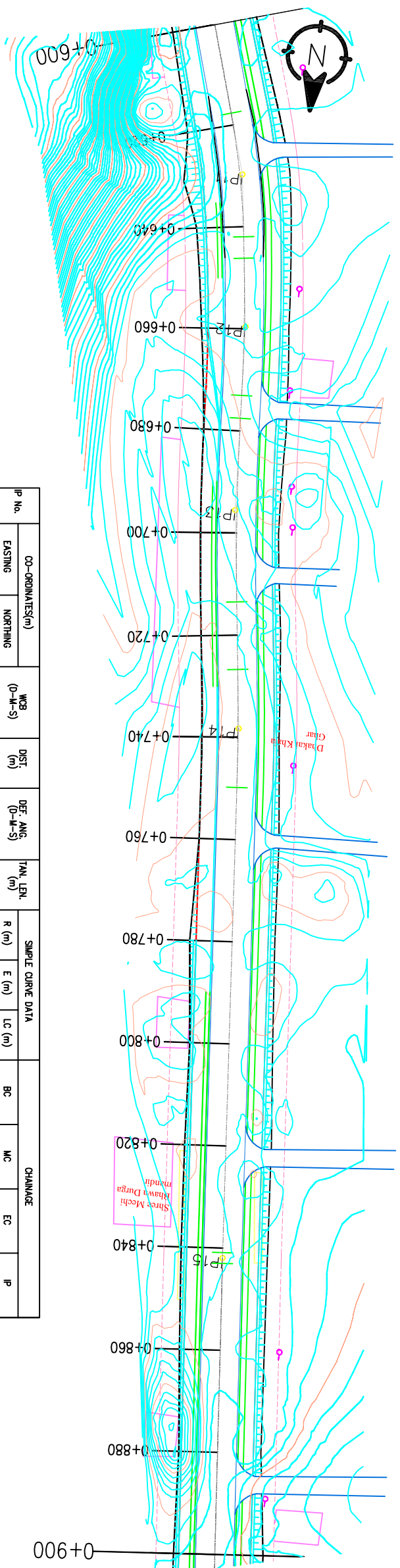
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IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DST (m)	DEF. ANG (0-M-S)	TAN. LEN (m)	SIMPLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
P10	615474.800	2948790.765	342-12-23.77	81.052	06-01-6.51	15.771	300.000	0.414	31.513	0+560.119	0+575.876	0+591.632	0+575.890
P11	615468.304	2948842.167	351-30-42.28	53.984	09-18-18.51	12.207	150.000	0.498	24.361	0+617.638	0+629.819	0+641.999	0+629.846
P12	615453.900	2948871.673	355-54-45.92	29.833	04-24-3.64	13.449	350.000	0.258	26.884	0+646.176	0+659.618	0+673.060	0+659.625
P13	615451.341	2948907.489	351-47-37.10	35.907	04-07-8.82	17.981	500.000	0.323	35.946	0+672.538	0+695.511	0+713.484	0+695.519
P14	615445.237	2948949.814	354-26-22.63	42.763	02-39-45.53	11.547	500.000	0.133	23.091	0+726.719	0+738.284	0+749.809	0+738.266
P15	615435.191	2949053.006	354-11-43.27	103.680	00-14-39.36	1.086	500.000	0.001	2.132	0+840.876	0+841.942	0+843.008	0+841.942
P16	615423.758	2949165.465	341-32-14.18	113.039	12-39-29.09	38.820	350.000	2.146	77.324	0+916.161	0+934.823	0+954.485	0+954.981



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
85.054	84.730	0+600	L=17.638
85.114	84.697	0+610	
85.175	84.682	0+620	L = 24.361 R = 150
85.235	84.655	0+630	
85.295	84.730	0+640	L=4.177
85.355	84.722	0+650	
85.416	84.807	0+660	L = 26.884 R = 350
85.476	84.853	0+670	
85.536	85.045	0+680	L=4.478
85.596	85.292	0+690	
85.657	85.482	0+700	L = 35.946 R = 500
85.717	85.592	0+710	
85.777	85.833	0+720	L=13.235
85.837	85.861	0+730	
85.898	85.926	0+740	L = 23.091 R = 500
85.958	85.890	0+750	
86.018	85.880	0+760	L=91.067
86.078	85.897	0+770	
86.139	85.857	0+780	L=2.132
86.199	85.881	0+790	
86.251	85.906	0+800	L=1.179
86.283	85.875	0+810	
86.294	85.836	0+820	L=56.992
86.286	85.808	0+830	
86.258	85.819	0+840	L=1.4
86.210	85.791	0+850	
86.150	85.774	0+860	L=1.4
86.090	85.665	0+870	
86.030	85.587	0+880	L=1.4
85.970	85.515	0+890	
85.910	85.474	0+900	L=1.4



Government of Nepal  
Ministry of Municipal, Rural and Urban Development  
Kathmandu

CONSULTANT:  
CZTech - GIDAN JV

**SURYADAYAMARGA**  
Suryodaya Marga

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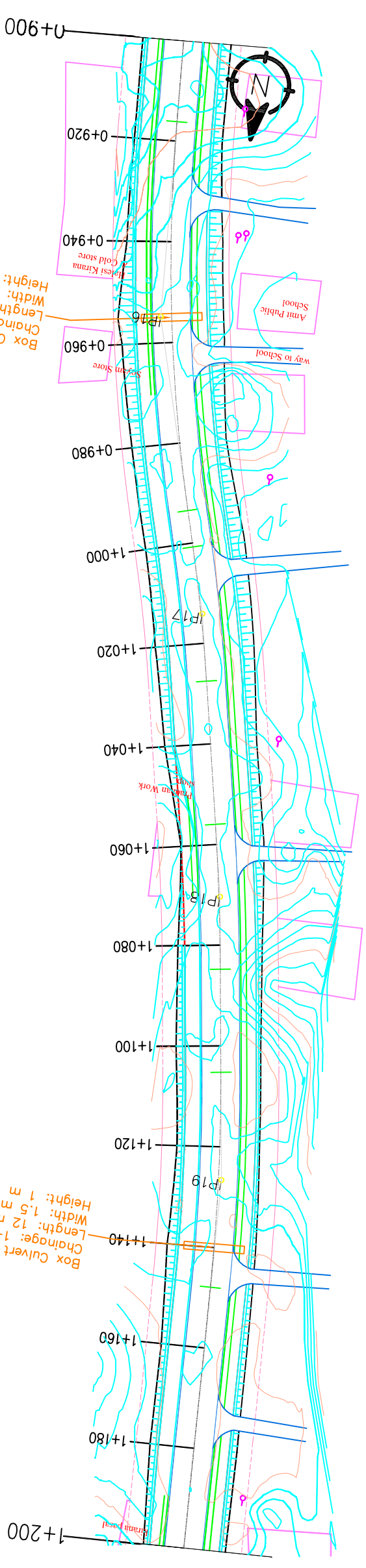
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**Plan & Profile**

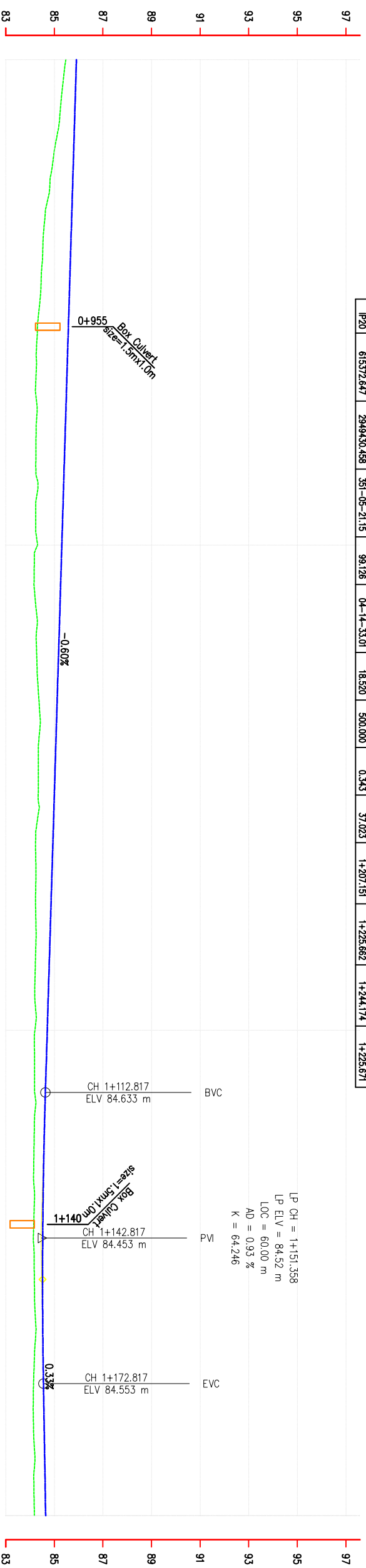
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Nepal Urban Governance and Infrastructure Project (NUGIP)  
Koshi Province  
Jhapa, Nepal



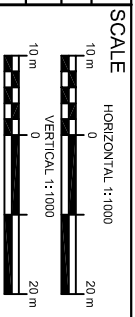
IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DIST. (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SINGLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
IP16	615423.758	2949165.465	341-32-14.18	113.039	12-39-29.09	38.820	350.000	2.146	77.324	0+916.161	0+954.823	0+993.485	0+954.981
IP17	615404.917	2949221.898	345-55-7.24	58.495	04-22-53.06	13.389	350.000	0.256	26.764	1+000.771	1+027.535	1+074.160	1+074.160
IP18	615391.235	2949276.445	349-12-46.09	56.237	03-17-38.85	14.377	500.000	0.207	26.747	1+056.006	1+070.380	1+084.733	1+070.384
IP19	615380.714	2949331.661	355-19-54.16	56.209	06-07-58.07	21.379	400.000	0.571	42.718	1+105.206	1+126.565	1+147.924	1+126.585
IP20	615372.647	2949430.458	351-05-21.15	99.126	04-14-33.01	18.520	500.000	0.343	37.023	1+207.151	1+225.662	1+244.174	1+225.671



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
85.910	85.474	0+900	
85.850	85.251	0+910	
85.790	84.968	0+920	
85.730	84.676	0+930	
85.670	84.521	0+940	
85.610	84.402	0+950	
85.550	84.263	0+960	
85.490	84.260	0+970	
85.430	84.245	0+980	
85.370	84.275	0+990	
85.310	84.313	1+000	
85.250	84.195	1+010	
85.190	84.258	1+020	
85.130	84.342	1+030	
85.070	84.368	1+040	
85.010	84.342	1+050	
84.950	84.235	1+060	
84.890	84.239	1+070	
84.830	84.250	1+080	
84.770	84.202	1+090	
84.710	84.201	1+100	
84.650	84.187	1+110	
84.594	84.178	1+120	
84.553	84.148	1+130	
84.527	84.153	1+140	
84.518	84.175	1+150	
84.523	84.231	1+160	
84.544	84.164	1+170	
84.577	84.139	1+180	
84.611	84.183	1+190	
84.644	84.179	1+200	

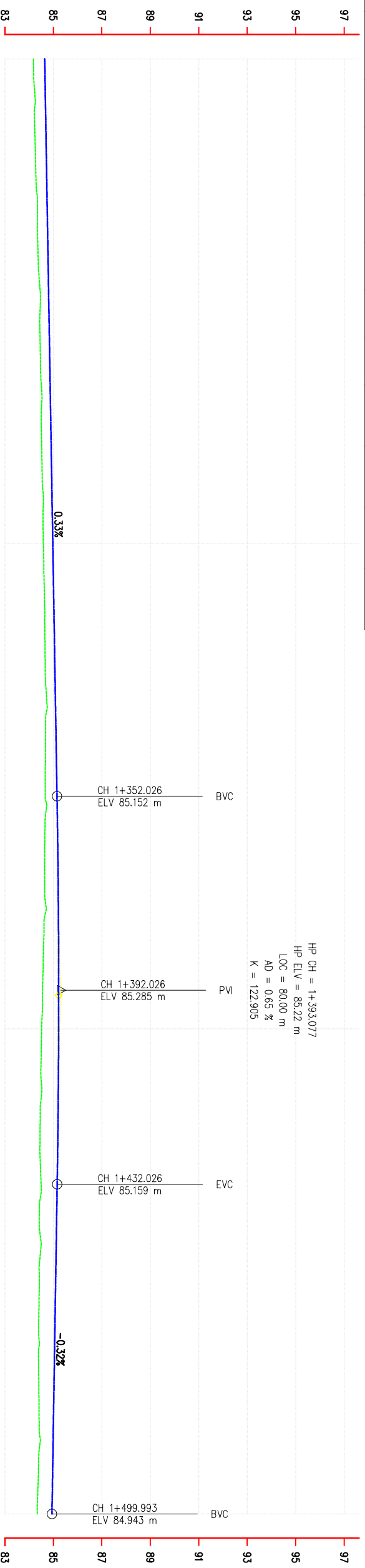
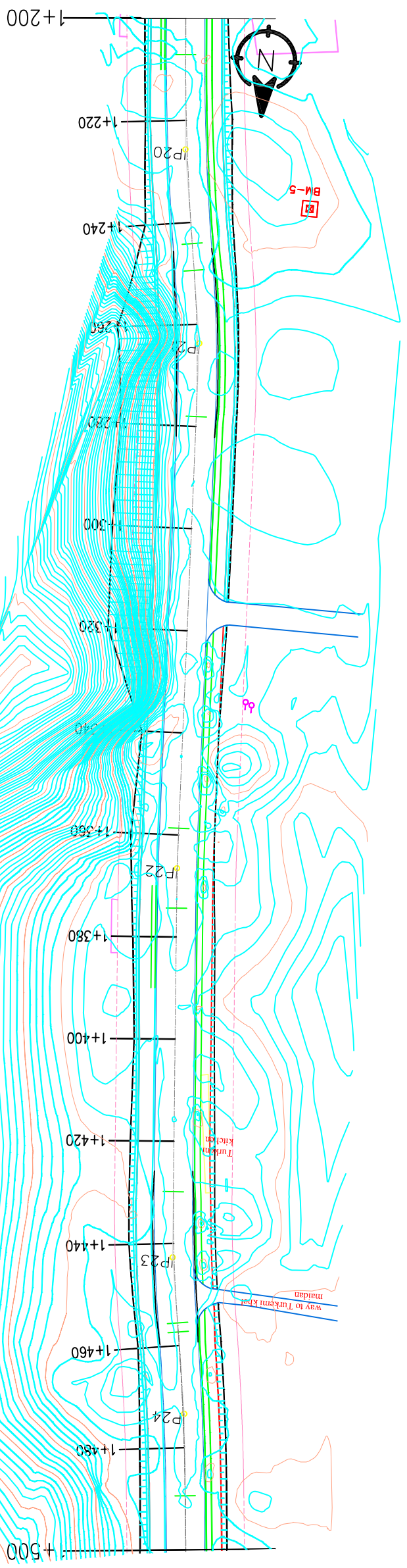
Government of Nepal  
 Ministry of Municipal Executive  
 Koshi Province  
 Jhapa, Nepal

Government of Nepal Ministry of Municipal Executive Koshi Province Jhapa, Nepal	CONSULTANT: C2Tech - GIDAN JV	SURyadayamarga Suryodaya Margā	DATE:	REVISION:	SIGNATURE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	DRG NO:	SHEET NO:
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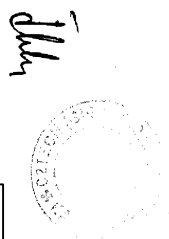


### Plan & Profile

IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DIST. (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
IP20	615372.647	2949430.458	351-05-21.15	99.126	04-14-33.01	18.520	500.000	0.343	37.023	1+207.151	1+225.662	1+244.174	1+225.671
IP21	615366.748	2949468.080	357-38-59.26	38.081	06-33-38.11	14.329	250.000	0.410	28.626	1+249.406	1+263.719	1+278.032	1+263.735
IP22	615362.532	2949570.810	359-51-37.14	102.816	01-47-22.12	7.809	500.000	0.061	13.616	1+358.711	1+366.519	1+374.327	1+366.520
IP23	615357.032	2949646.798	350-56-57.40	76.187	04-54-39.74	12.865	300.000	0.276	25.714	1+429.840	1+442.697	1+455.595	1+442.705
IP24	615352.203	2949677.116	354-37-49.99	30.700	03-40-52.98	16.088	500.000	0.288	32.125	1+457.322	1+473.385	1+489.447	1+473.390



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
84.644	84.179	1+200	L = 7.151 R = 500
84.677	84.234	1+210	
84.711	84.261	1+220	L = 37.023 R = 500
84.744	84.345	1+230	
84.778	84.368	1+240	L = 233 R = 500
84.811	84.466	1+250	
84.844	84.459	1+260	L = 28.626 R = 250
84.878	84.534	1+270	
84.911	84.519	1+280	L = 80.679
84.945	84.587	1+290	
84.978	84.589	1+300	L = 15.616 R = 500
85.011	84.632	1+310	
85.045	84.653	1+320	L = 55.513
85.078	84.700	1+330	
85.112	84.677	1+340	L = 25.714 R = 300
85.145	84.665	1+350	
85.176	84.651	1+360	L = 7.787 R = 500
85.199	84.641	1+370	
85.213	84.614	1+380	L = 32.125 R = 500
85.220	84.564	1+390	
85.218	84.518	1+400	L = 10.553
85.209	84.488	1+410	
85.191	84.455	1+420	L = 10.553
85.165	84.480	1+430	
85.133	84.420	1+440	L = 10.553
85.102	84.421	1+450	
85.070	84.397	1+460	L = 10.553
85.038	84.393	1+470	
85.007	84.413	1+480	L = 10.553
84.975	84.390	1+490	
84.943	84.332	1+500	L = 10.553



Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
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Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

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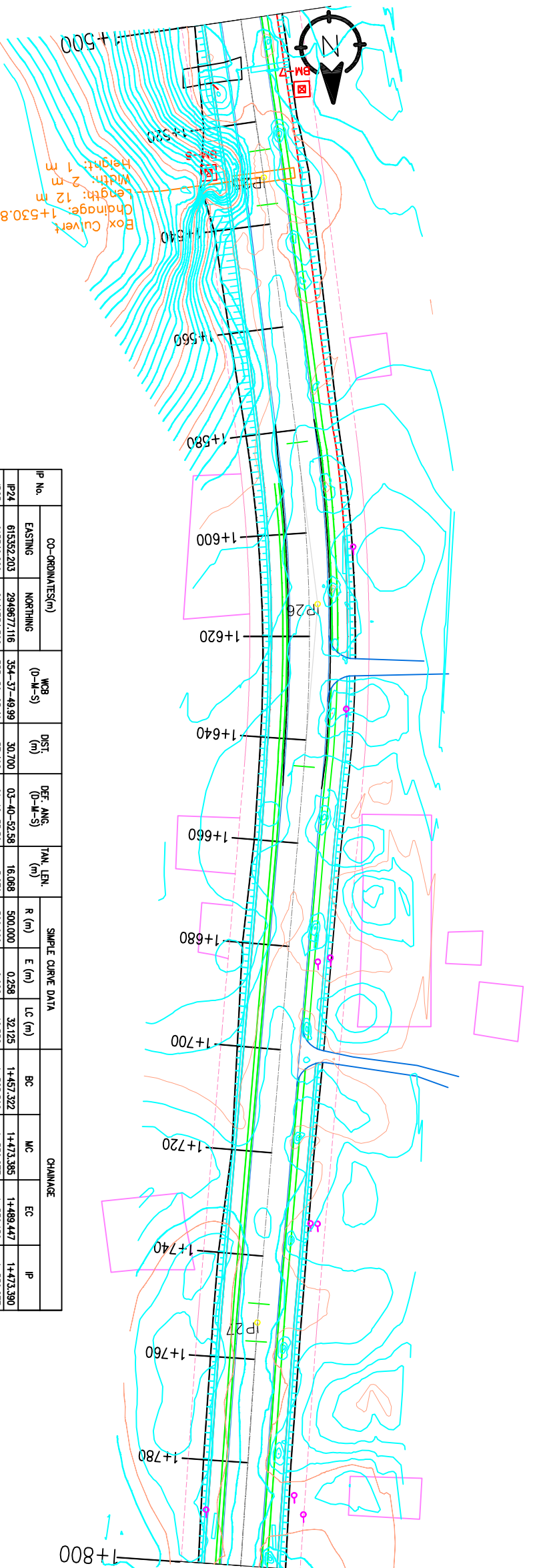
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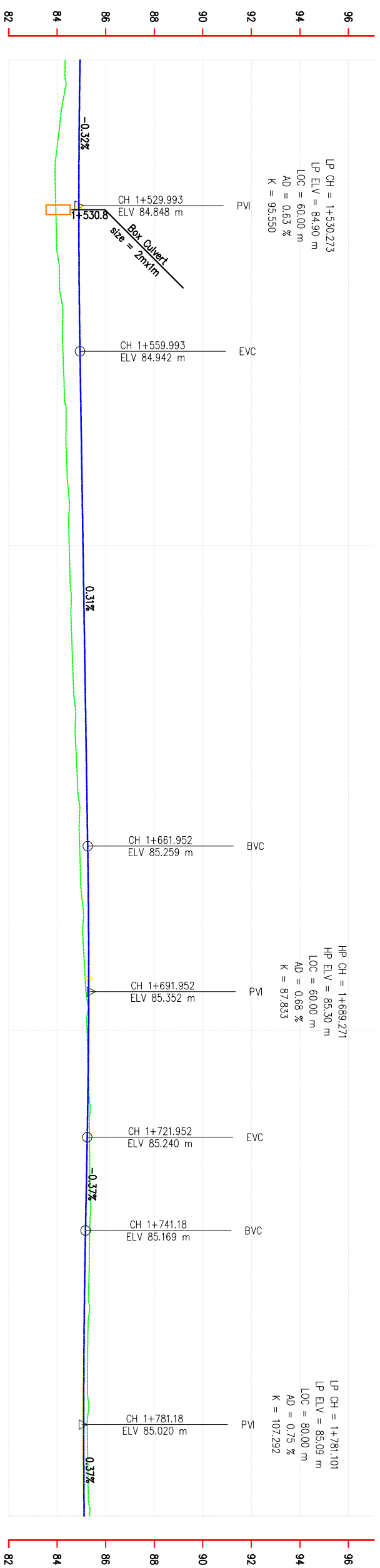
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IP No.	CO-ORDINATES(m)		WB (m-s)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN (m)	SIMPLE CURVE DATA					CHAINAGE		
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
P24	61532.203	2949677.116	354-37-48.99	30.700	03-40-52.58	16.698	500.000	0.258	32.125	1+457.322	1+473.395	1+489.447	1+473.390	
P25	615346.822	2949734.362	355-50-25.49	57.498	01-12-35.50	5.279	500.000	0.028	10.558	1+525.998	1+530.877	1+536.196	1+530.877	
P26	615340.800	2949817.170	07-48-35.75	83.027	11-58-10.28	31.451	300.000	1.644	62.672	1+582.453	1+613.789	1+645.125	1+613.904	
P27	615359.715	2949855.078	06-59-20.75	139.199	00-50-15.00	3.654	500.000	0.013	7.309	1+749.219	1+752.874	1+756.528	1+752.874	



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
84.943	84.332	1+500	
84.917	84.185	1+510	
84.901	83.949	1+520	
84.895	83.943	1+530	
84.900	84.011	1+540	
84.916	84.194	1+550	
84.942	84.240	1+560	
84.973	84.301	1+570	
85.004	84.372	1+580	
85.035	84.486	1+590	
85.066	84.498	1+600	
85.097	84.584	1+610	
85.128	84.608	1+620	
85.159	84.680	1+630	
85.190	84.756	1+640	
85.222	84.848	1+650	
85.253	84.917	1+660	
85.280	84.975	1+670	
85.296	85.055	1+680	
85.301	85.165	1+690	
85.295	85.234	1+700	
85.277	85.289	1+710	
85.247	85.329	1+720	
85.210	85.347	1+730	
85.173	85.350	1+740	
85.140	85.316	1+750	
85.115	85.277	1+760	
85.100	85.250	1+770	
85.095	85.247	1+780	
85.098	85.268	1+790	
85.111	85.330	1+800	



Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

**SURYADAYAMARGA**  
Suryodaya Marga

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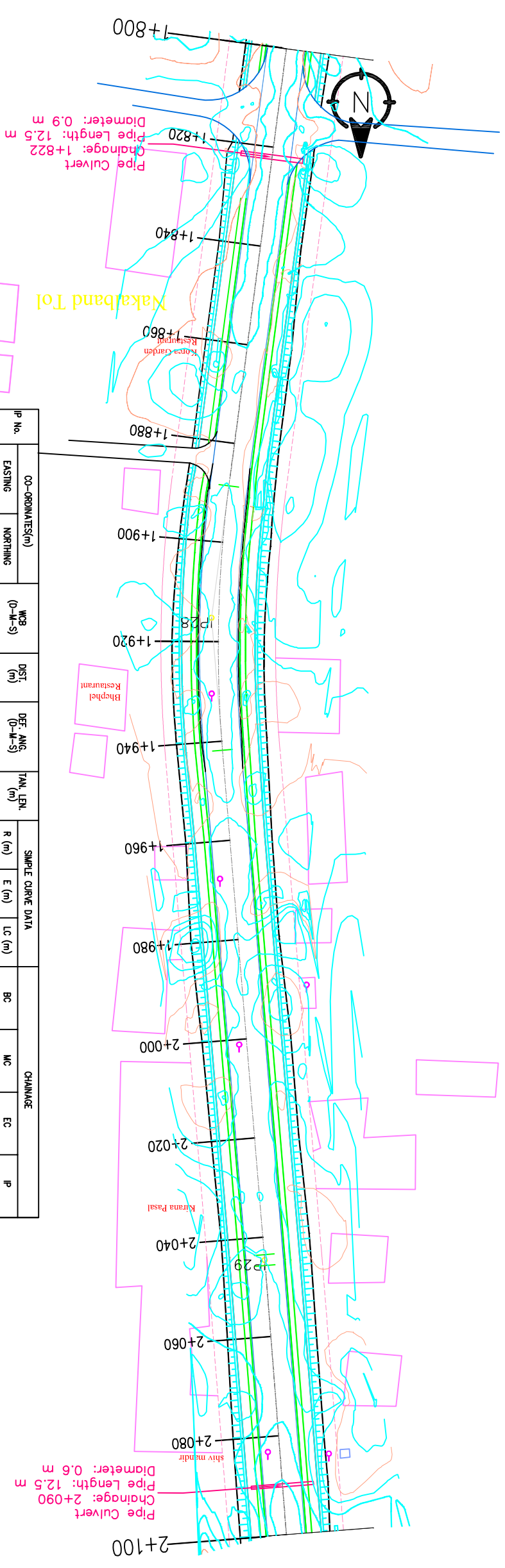
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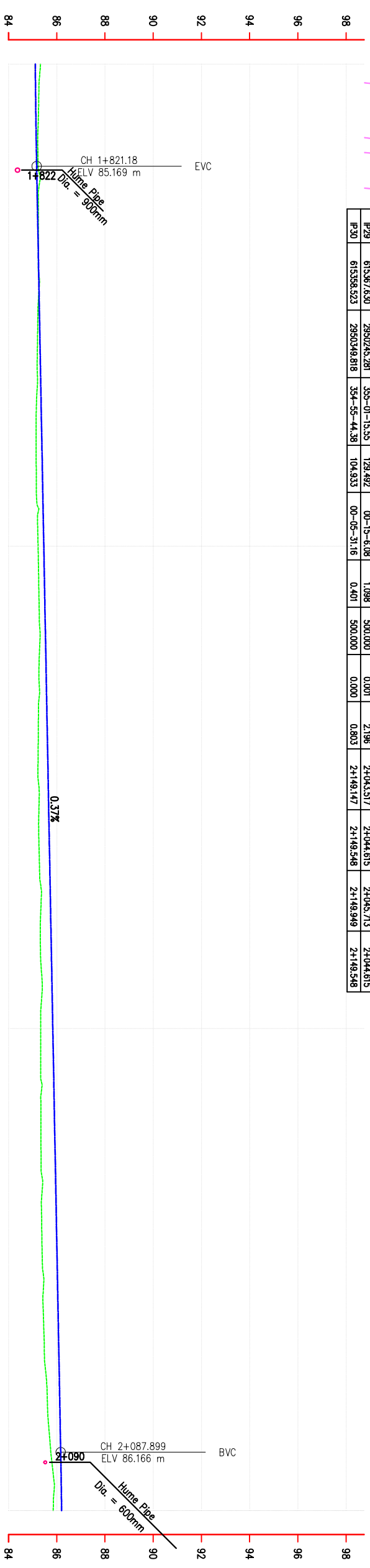
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IP No.	CO-ORDINATES(m)			WOB (0-M-S)	DST. (m)	DEF. ANG (0-M-S)	TAN. LEN. (m)	SAMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING	(0-M-S)					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
P27	615359.715	2949955.078	08-58-20.75	139.199	00-50-15.00	3.654	500.000	0.013	7.309	1+749.219	1+752.874	1+756.528	1+759.874		
P28	615379.436	2950116.328	35-46-04.47	162.451	12-12-11.28	26.724	250.000	1.424	53.246	1+888.601	1+915.224	1+941.847	1+915.325		
P29	615367.630	2950245.281	355-01-15.55	129.492	00-15-6.08	1.098	500.000	0.001	2.196	2+043.517	2+044.615	2+045.713	2+044.615		
P30	615358.823	2950349.818	354-55-44.38	104.933	00-05-31.16	0.401	500.000	0.000	0.803	2+149.147	2+149.548	2+149.949	2+149.548		



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)
85.111	85.330	1+800
85.133	85.244	1+810
85.165	85.221	1+820
85.202	85.234	1+830
85.240	85.238	1+840
85.277	85.228	1+850
85.314	85.195	1+860
85.352	85.161	1+870
85.389	85.149	1+880
85.427	85.165	1+890
85.464	85.227	1+900
85.501	85.261	1+910
85.539	85.300	1+920
85.576	85.289	1+930
85.613	85.235	1+940
85.651	85.269	1+950
85.688	85.257	1+960
85.725	85.326	1+970
85.763	85.319	1+980
85.800	85.393	1+990
85.837	85.339	2+000
85.875	85.338	2+010
85.912	85.342	2+020
85.949	85.365	2+030
85.987	85.377	2+040
86.024	85.417	2+050
86.062	85.450	2+060
86.099	85.518	2+070
86.136	85.628	2+080
86.173	85.802	2+090
86.203	85.857	2+100

Government of Nepal  
Mechinagar Municipality  
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Koshi Province  
Jhapa, Nepal

CONSULTANT:  
CZTech - GIDAN JV

**SURYADAYAMARGA**  
Suryodaya Marga

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APPROVED BY: \_\_\_\_\_

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**Plan & Profile**

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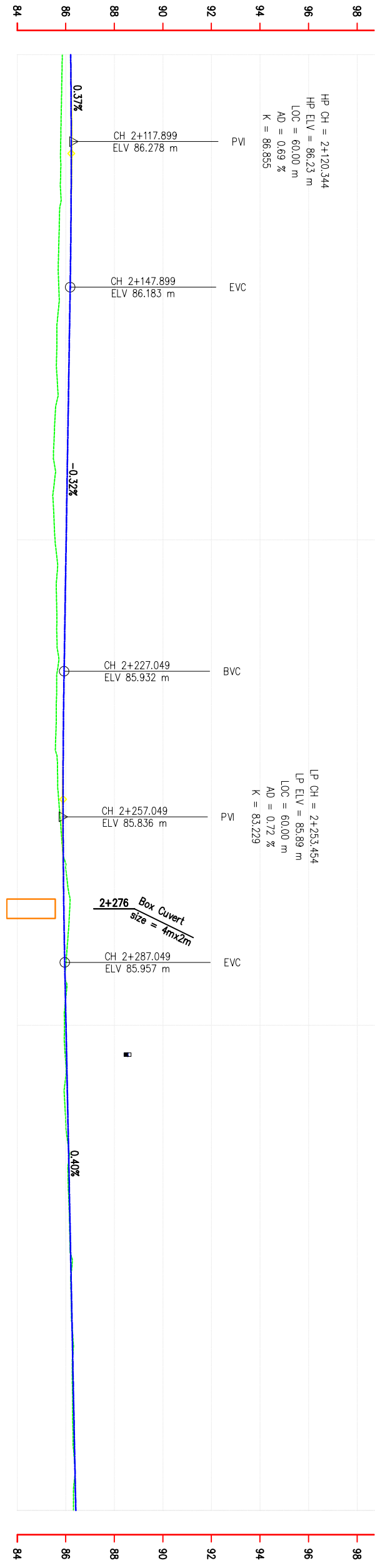
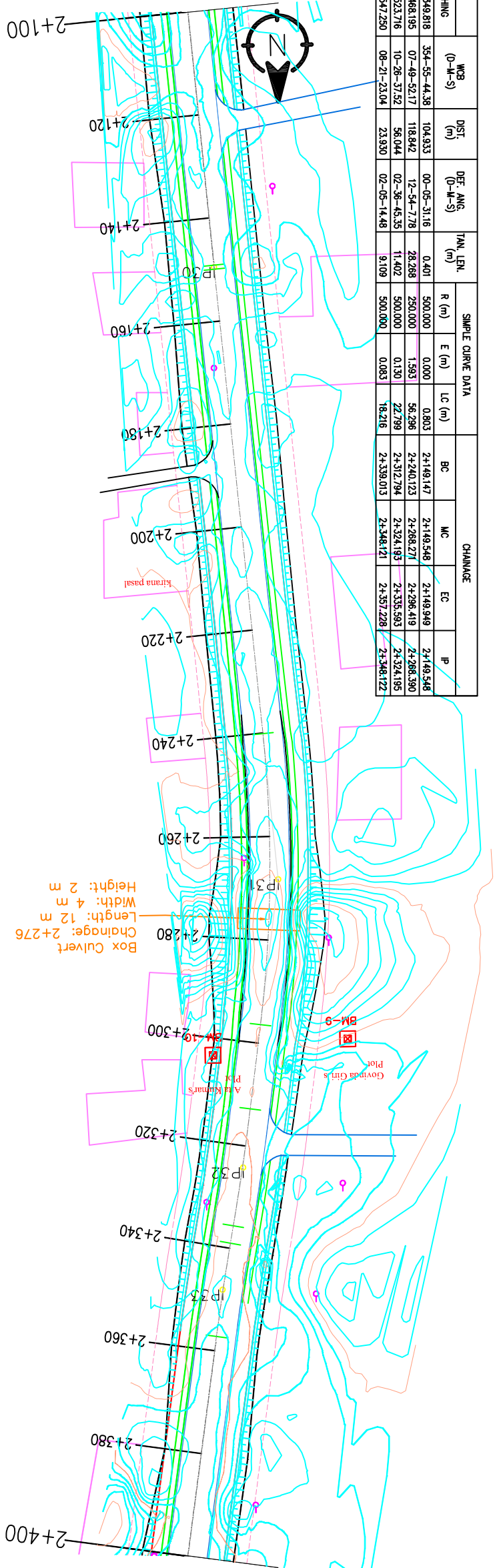
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IP No.	CO-ORDINATES(m)		WCB (D-M-S)	DST (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA			CHAINAGE		
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC
IP 30	615358.523	2950349.818	35-45-44.38	104.933	00-05-31.16	0.401	500.000	0.000	0.803	2+149.147	2+149.548	2+149.548
IP 31	615348.018	2950468.195	07-49-52.17	118.842	12-54-7.78	28.288	250.000	1.893	56.296	2+240.123	2+288.271	2+288.419
IP 32	615353.935	2950523.716	10-28-37.32	96.044	02-38-43.33	11.402	500.000	0.130	22.799	2+312.794	2+324.193	2+324.193
IP 33	615359.933	2950547.250	08-21-23.04	23.930	02-05-14.48	9.109	500.000	0.083	18.216	2+339.013	2+348.121	2+348.122



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)	HORIZONTAL SCHEMATIC
86.203	85.857	2+100	[Horizontal Schematic Diagram]
86.220	85.822	2+110	
86.226	85.785	2+120	
86.221	85.811	2+130	
86.204	85.709	2+140	
86.176	85.730	2+150	
86.144	85.632	2+160	
86.113	85.681	2+170	
86.081	85.512	2+180	
86.049	85.485	2+190	
86.017	85.558	2+200	
85.986	85.610	2+210	
85.954	85.635	2+220	
85.923	85.624	2+230	
85.901	85.592	2+240	
85.890	85.667	2+250	
85.892	85.811	2+260	
85.906	86.052	2+270	
85.932	86.118	2+280	
85.969	85.967	2+290	
86.010	85.944	2+300	
86.050	86.012	2+310	
86.090	86.000	2+320	
86.131	86.090	2+330	
86.171	86.153	2+340	
86.212	86.247	2+350	
86.252	86.237	2+360	
86.292	86.270	2+370	
86.333	86.288	2+380	
86.373	86.363	2+390	
86.413	86.318	2+400	

Government of Nepal  
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Koshi Province  
Jhapa, Nepal

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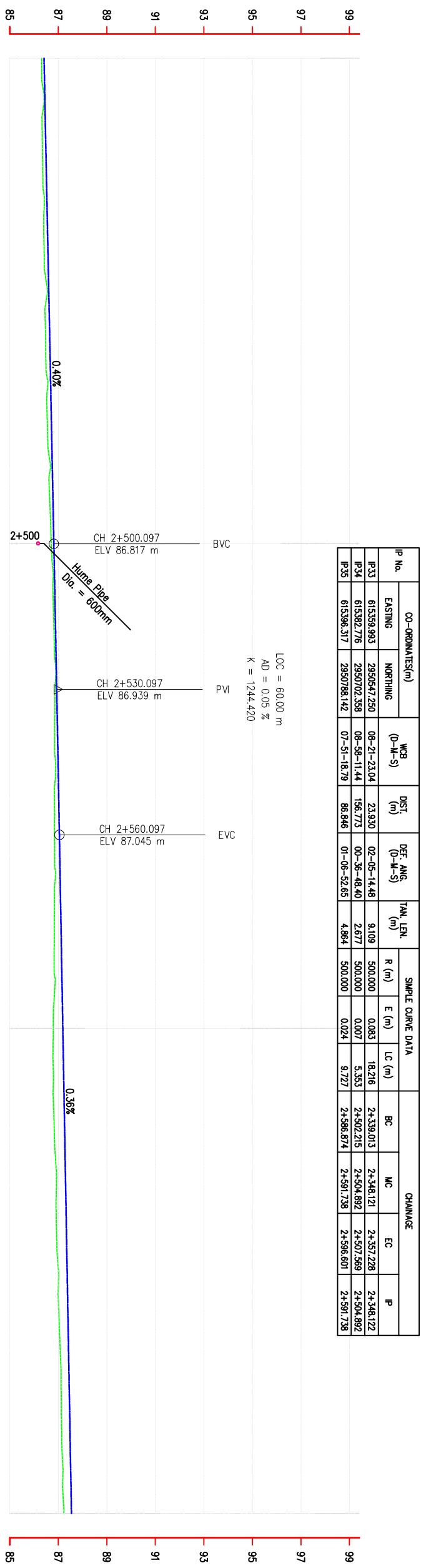
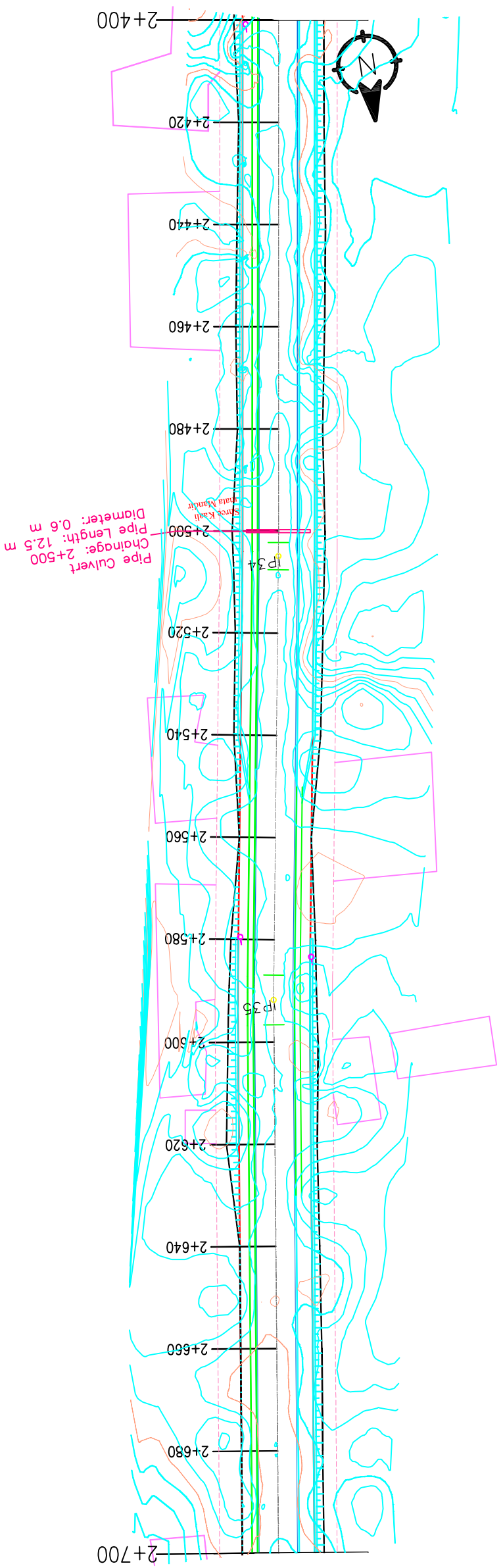
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IP No.	CO-ORDINATES(m)		WCB (D-M-S)	DST. (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
P33	615359.983	2990547.250	08-21-23.04	23.930	02-05-14.48	9.109	500.000	0.083	18.216	2+339.013	2+348.121	2+357.228	2+348.122	
P34	615382.776	2990702.358	08-58-11.44	156.773	00-36-48.40	2.877	500.000	0.007	5.353	2+502.215	2+504.892	2+507.569	2+504.892	
P35	615396.317	2990788.142	07-51-18.79	86.846	01-06-52.85	4.884	500.000	0.024	9.727	2+586.874	2+591.738	2+596.601	2+591.738	

DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
86.413	86.318	2+400	L=102.215
86.454	86.391	2+410	
86.494	86.350	2+420	
86.534	86.428	2+430	
86.575	86.418	2+440	
86.615	86.503	2+450	
86.656	86.480	2+460	
86.696	86.520	2+470	
86.736	86.574	2+480	
86.777	86.639	2+490	
86.817	86.710	2+500	L=79.306
86.857	86.780	2+510	
86.896	86.832	2+520	
86.935	86.864	2+530	
86.972	86.852	2+540	
87.009	86.848	2+550	
87.045	86.846	2+560	
87.080	86.860	2+570	
87.116	86.835	2+580	
87.151	86.876	2+590	
87.187	86.792	2+600	
87.223	86.803	2+610	
87.258	86.829	2+620	
87.294	86.927	2+630	
87.329	86.919	2+640	
87.365	87.009	2+650	
87.400	87.031	2+660	
87.436	87.112	2+670	
87.471	87.128	2+680	
87.507	87.185	2+690	
87.542	87.233	2+700	



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Koshi Province  
Jhapa, Nepal

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CZTech - GIDAN JV

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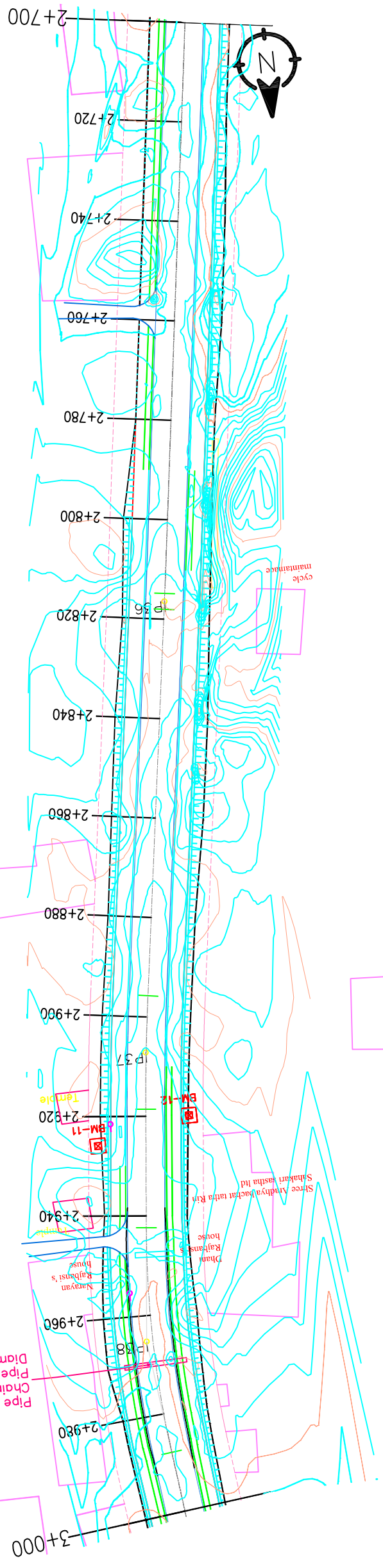
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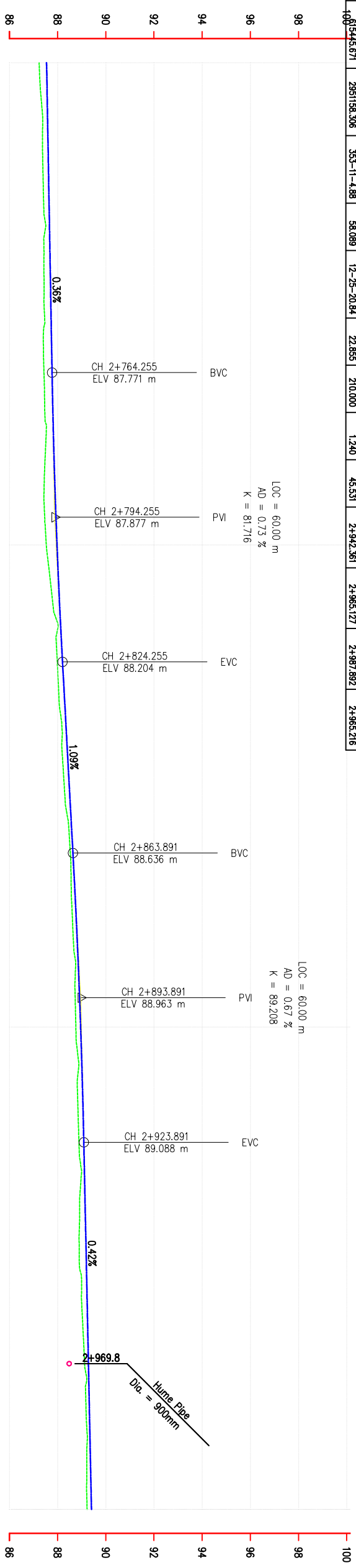
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IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DST (m)	DEF ANG (0-M-S)	TAN LEN (m)	SAMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
IP35	615396.317	2950788.142	07-51-18.79	86.846	01-06-52.65	4.864	500.000	0.024	9.727	2+596.874	2+591.738	2+591.738	2+591.738	
IP36	615427.022	2951010.698	08-13-14.22	224.864	00-21-55.43	1.594	500.000	0.003	3.189	2+614.808	2+616.402	2+616.402	2+616.402	
IP37	615439.995	2951100.496	05-36-25.71	90.730	02-36-48.51	11.405	500.000	0.130	22.807	2+695.726	2+697.130	2+697.132	2+697.132	
IP38	615445.671	2951158.306	353-11-4.88	58.089	12-25-20.84	22.855	210.000	1.240	45.531	2+942.361	2+945.127	2+945.216	2+945.216	



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)
87.542	87.233	2+700
87.578	87.362	2+710
87.613	87.382	2+720
87.649	87.426	2+730
87.685	87.435	2+740
87.720	87.435	2+750
87.756	87.415	2+760
87.793	87.461	2+770
87.842	87.500	2+780
87.903	87.432	2+790
87.976	87.531	2+800
88.061	87.753	2+810
88.159	87.940	2+820
88.267	88.041	2+830
88.376	88.187	2+840
88.485	88.277	2+850
88.594	88.481	2+860
88.701	88.562	2+870
88.797	88.635	2+880
88.883	88.727	2+890
88.957	88.758	2+900
89.020	88.837	2+910
89.071	88.863	2+920
89.114	88.995	2+930
89.155	88.912	2+940
89.197	88.915	2+950
89.239	89.027	2+960
89.281	89.122	2+970
89.322	89.185	2+980
89.364	89.211	2+990
89.406	89.224	3+000

Government of Nepal  
Mechinagar Municipality  
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Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

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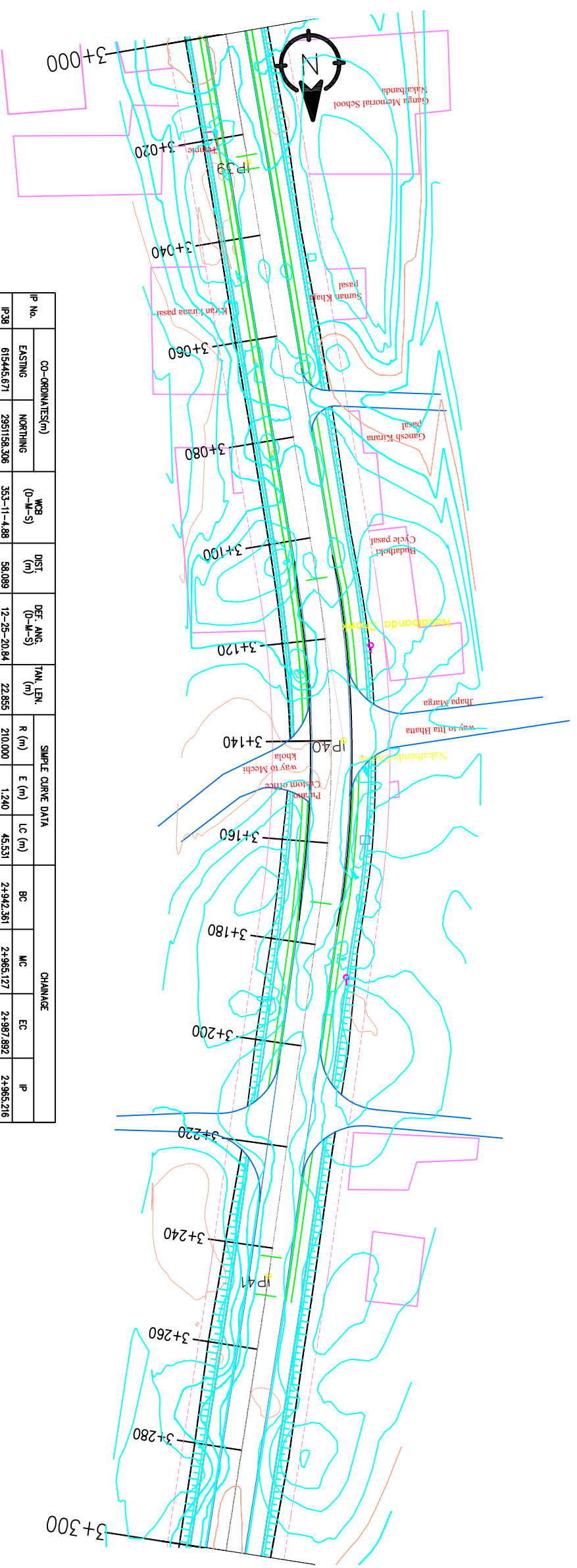
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VERTICAL 1:1000

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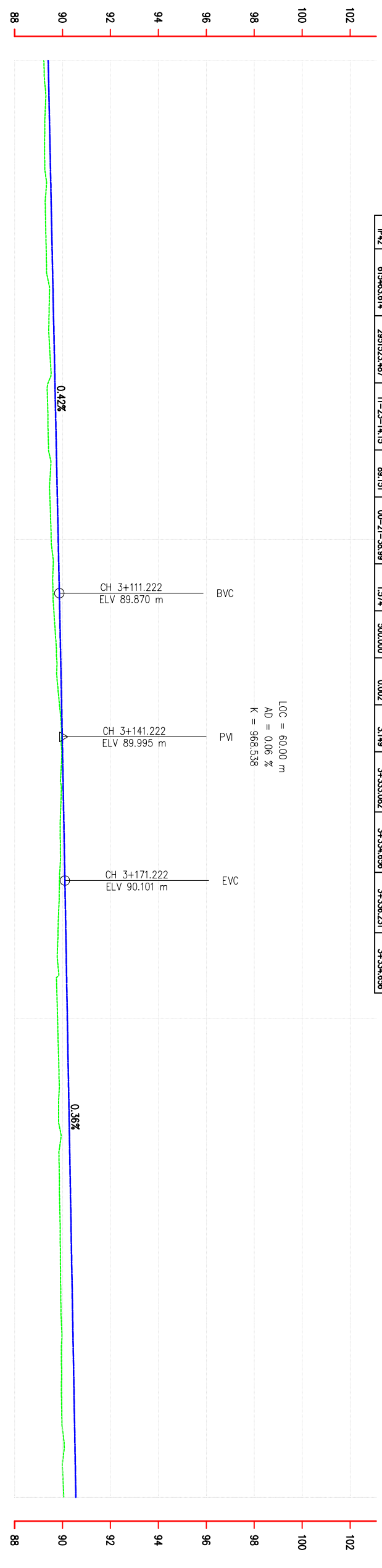
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IP No.	CO-ORDINATE(m)		WCB (0-M-S)	DST (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
P38	615445.671	2951198.306	353-11-4.88	98.089	12-25-20.84	22.955	210.000	1.240	45.531	2+942.361	2+965.127	2+987.892	2+965.216	
P39	615438.495	2951218.347	353-29-49.78	60.468	00-18-44.90	1.363	500.000	0.002	2.727	3+024.142	3+025.505	3+025.888	3+025.505	
P40	615425.506	2951332.298	10-52-18.64	114.688	17-22-28.87	32.087	210.000	2.437	63.682	3+108.106	3+139.947	3+171.788	3+140.193	
P41	615445.462	2951436.203	11-44-53.15	105.804	00-52-34.50	3.823	500.000	0.015	7.647	3+241.882	3+243.505	3+249.329	3+245.505	
P42	615463.614	2951523.487	11-23-14.15	89.151	00-21-38.99	1.574	500.000	0.002	3.149	3+333.082	3+334.656	3+336.231	3+334.656	



CHAINAGE(km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)
3+000	89.224	89.406
3+010	89.285	89.447
3+020	89.255	89.489
3+030	89.283	89.531
3+040	89.324	89.573
3+050	89.451	89.614
3+060	89.464	89.656
3+070	89.369	89.698
3+080	89.414	89.739
3+090	89.466	89.781
3+100	89.531	89.823
3+110	89.599	89.864
3+120	89.708	89.906
3+130	89.791	89.946
3+140	89.962	89.985
3+150	89.921	90.024
3+160	89.903	90.061
3+170	89.879	90.097
3+180	89.822	90.132
3+190	89.832	90.168
3+200	89.797	90.203
3+210	89.849	90.239
3+220	89.837	90.274
3+230	89.859	90.310
3+240	89.889	90.346
3+250	89.913	90.381
3+260	89.935	90.417
3+270	89.955	90.452
3+280	89.962	90.488
3+290	90.069	90.523
3+300	90.054	90.559

Government of Nepal  
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Koshi Province  
Jhapa, Nepal

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C2Tech - GIJAN JV

**SURYADAYAMARGA**  
Suryodaya Marga

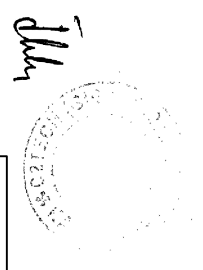
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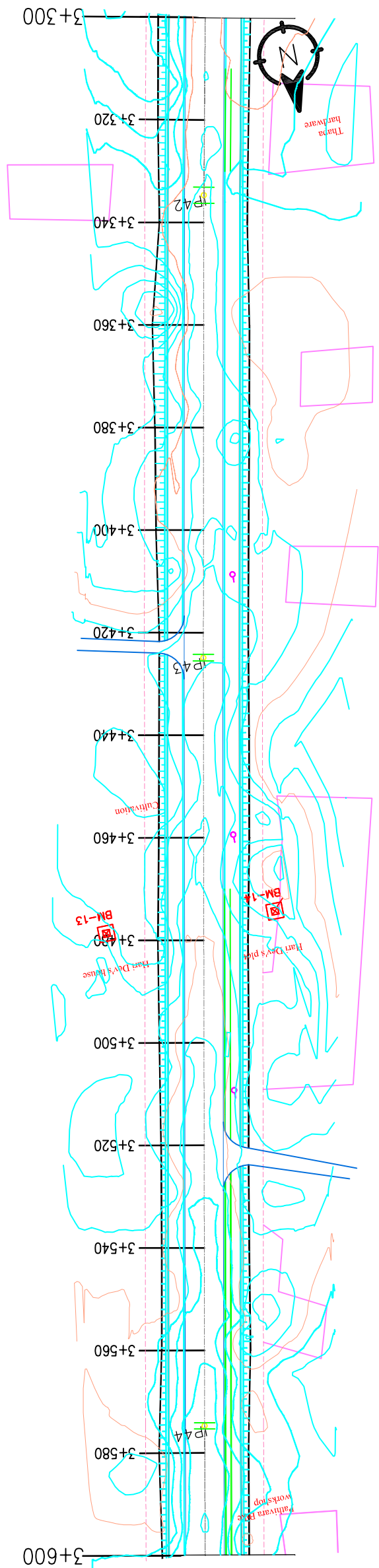
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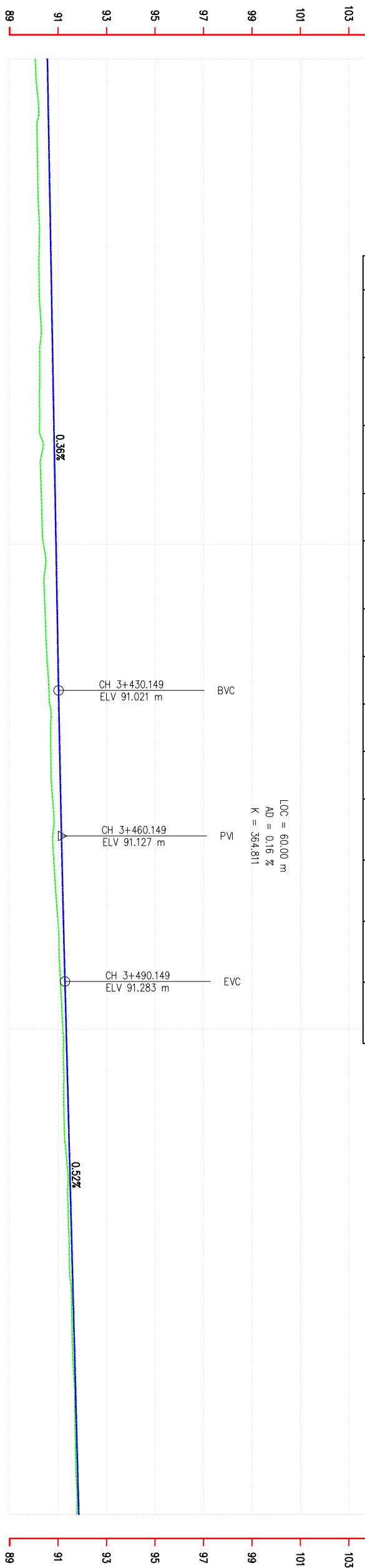
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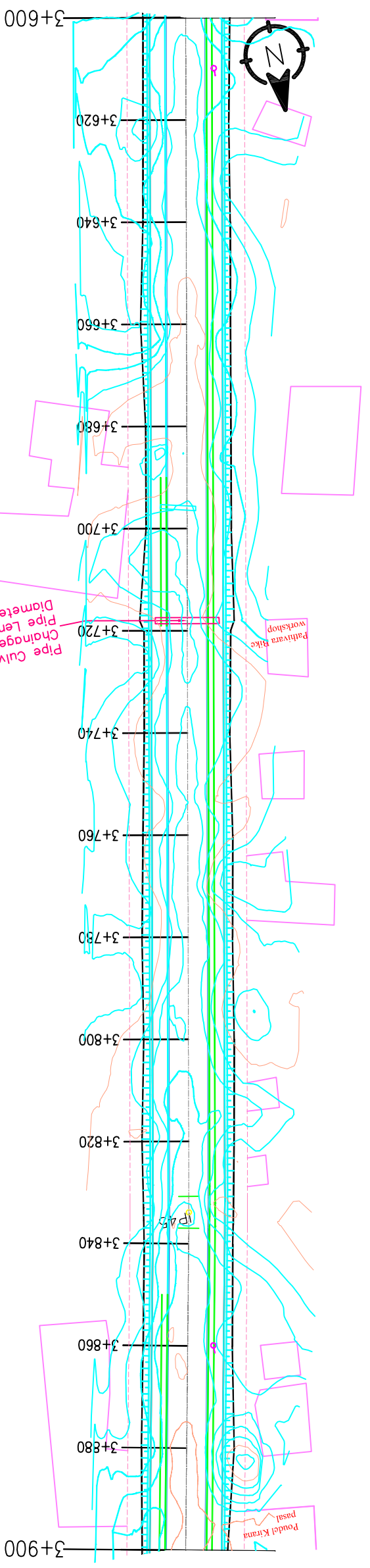
IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DST. (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SAMPLE CURVE DATA					CHAINAGE		
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	P	
IP-42	615463.614	2951623.467	11-23-14.15	88.151	00-21-38.99	1.574	500.000	0.002	3.149	3+333.082	3+334.656	3+336.231	3+334.656	
IP-43	615481.424	2951611.916	11-14-31.51	90.205	00-08-42.65	0.633	500.000	0.000	1.267	3+424.228	3+424.861	3+425.495	3+424.861	
IP-44	615510.631	2951758.885	11-06-16.98	149.814	00-08-14.52	0.599	500.000	0.000	1.199	3+574.076	3+574.675	3+575.274	3+574.675	



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
90.559	90.054	3+300	L=33.082
90.594	90.196	3+310	
90.630	90.146	3+320	
90.665	90.188	3+330	
90.701	90.214	3+340	
90.736	90.235	3+350	
90.772	90.240	3+360	
90.807	90.236	3+370	
90.843	90.383	3+380	
90.878	90.308	3+390	
90.914	90.397	3+400	
90.949	90.432	3+410	
90.985	90.506	3+420	
91.020	90.620	3+430	
91.057	90.695	3+440	
91.097	90.734	3+450	
91.139	90.782	3+460	
91.184	90.880	3+470	
91.232	91.023	3+480	
91.282	91.095	3+490	
91.334	91.196	3+500	
91.386	91.236	3+510	
91.438	91.254	3+520	
91.490	91.406	3+530	
91.542	91.428	3+540	
91.594	91.476	3+550	
91.646	91.570	3+560	
91.698	91.632	3+570	
91.750	91.697	3+580	
91.802	91.736	3+590	
91.854	91.778	3+600	

  
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Government of Nepal Mechlingpur Municipality Office of Municipal Executive Nepal Urban Governance and Infrastructure Project(NUGIS) Koshi Province Jhapa, Nepal	CONSULTANT: CZTech - GIDAN JV	SURYADAYAMARGA Suryodaya Marg	DATE: _____ REVISION: _____ SIGNATURE: _____	DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____	SCALE HORIZONTAL 1:1000 VERTICAL 1:1000 	<b>Plan &amp; Profile</b>	DATE: _____ DRG NO: _____ SHEET NO: _____
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IP No	CO-ORDINATES(m)			WGS (D-M-S)	DST (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING	(D-M-S)					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
P44	615510.631	2951798.855	11-06-16.98	149.814	0.599	0.000	1.199	3+574.075	3+574.675	3+575.274	3+574.675				
P45	615560.547	2952013.166	11-49-11.24	259.163	3.120	0.010	6.240	3+830.718	3+833.838	3+836.958	3+833.838				
P46	615585.392	2952131.887	11-02-24.57	121.293	3.329	0.011	6.658	3+951.802	3+955.131	3+958.460	3+955.131				



CHAINAGE(Km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)
3+600	91.778	91.854
3+610	91.815	91.906
3+620	91.898	91.958
3+630	91.896	92.010
3+640	91.959	92.062
3+650	91.980	92.114
3+660	92.025	92.166
3+670	92.057	92.218
3+680	92.120	92.270
3+690	92.181	92.322
3+700	92.241	92.374
3+710	92.335	92.426
3+720	92.342	92.478
3+730	92.414	92.530
3+740	92.392	92.581
3+750	92.454	92.633
3+760	92.439	92.685
3+770	92.501	92.737
3+780	92.483	92.789
3+790	92.520	92.841
3+800	92.542	92.893
3+810	92.588	92.945
3+820	92.646	92.996
3+830	92.715	93.044
3+840	92.782	93.091
3+850	92.861	93.135
3+860	92.937	93.178
3+870	92.985	93.219
3+880	93.067	93.259
3+890	93.082	93.300
3+900	93.148	93.340

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

DESIGNED BY :  
DRAWN BY :  
CHECKED BY :  
APPROVED BY :

SURyadayamarga  
Suryodaya Marga

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REVISION: \_\_\_\_\_

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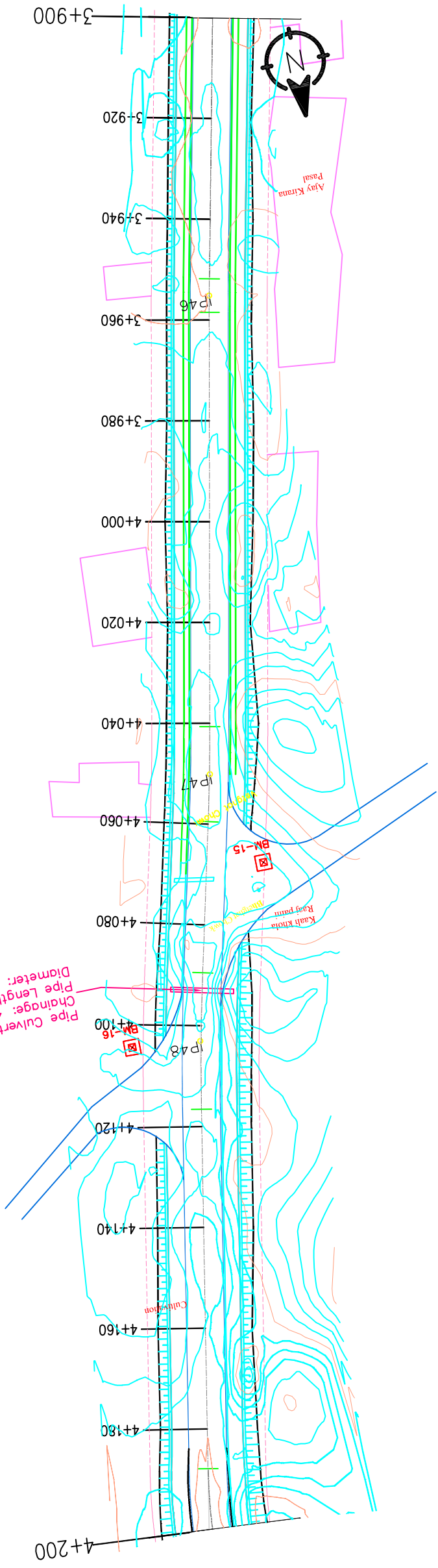
Plan & Profile

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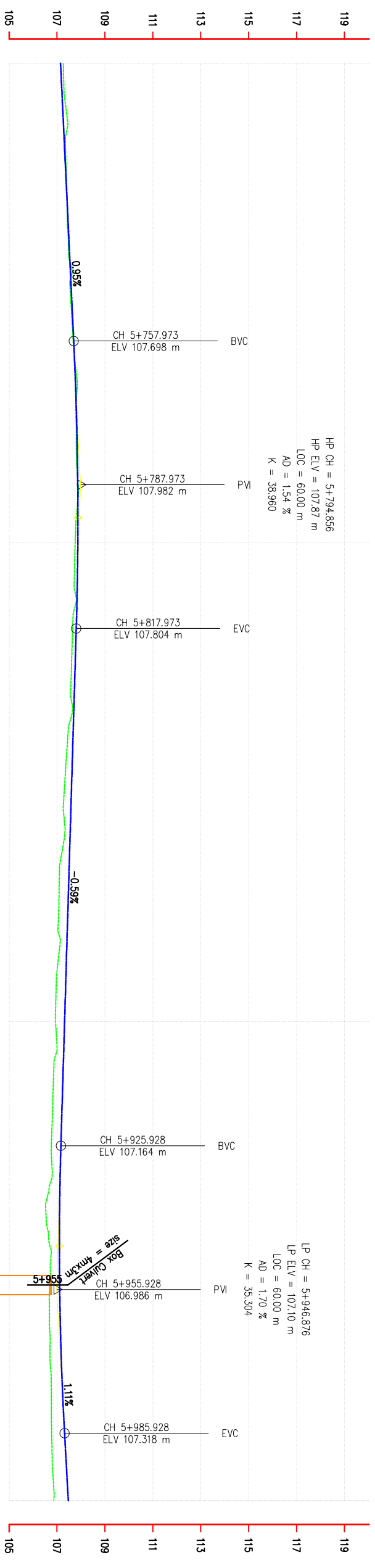
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IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DIST (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SAMPLE CURVE DATA		CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC
IP46	615595.392	295231.887	11-03-24.57	121.293	00-45-46.67	3.329	0.011	6.658	3+951.802	3+955.131	3+958.460	3+955.131
IP47	615603.801	295223.071	13-12-55.38	94.947	02-09-30.81	9.420	0.089	18.837	4+040.658	4+050.078	4+059.495	4+050.078
IP48	615615.710	2952276.636	10-06-43.35	52.988	03-06-12.04	13.544	0.183	27.082	4+089.499	4+103.040	4+116.581	4+103.043
IP49	615633.552	2952376.680	35-46-40.50	101.622	17-20-2.84	16.768	1.271	33.279	4+187.891	4+204.531	4+221.170	4+204.659



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)
107.149	107.258	5+700
107.244	107.391	5+710
107.339	107.369	5+720
107.434	107.427	5+730
107.528	107.487	5+740
107.623	107.581	5+750
107.717	107.704	5+760
107.794	107.806	5+770
107.845	107.807	5+780
107.870	107.898	5+790
107.870	107.761	5+800
107.843	107.740	5+810
107.792	107.641	5+820
107.733	107.579	5+830
107.674	107.460	5+840
107.614	107.326	5+850
107.555	107.341	5+860
107.496	107.099	5+870
107.436	107.050	5+880
107.377	106.991	5+890
107.318	106.940	5+900
107.258	106.866	5+910
107.199	106.806	5+920
107.142	106.788	5+930
107.108	106.538	5+940
107.103	106.733	5+950
107.126	106.688	5+960
107.177	106.711	5+970
107.257	106.764	5+980
107.363	106.795	5+990
107.473	106.862	6+000

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project (NUGIP)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

DESIGNED BY :  
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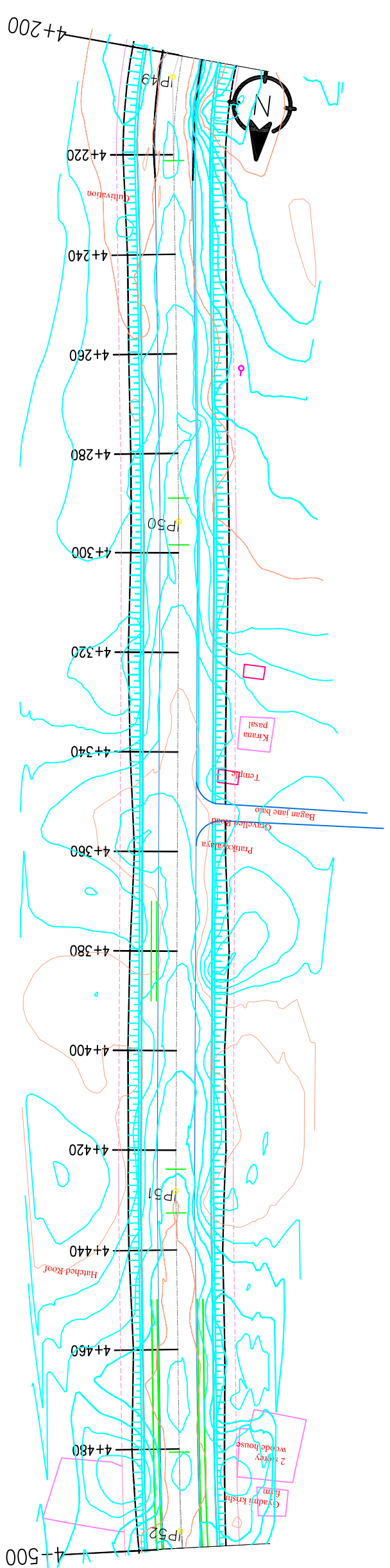
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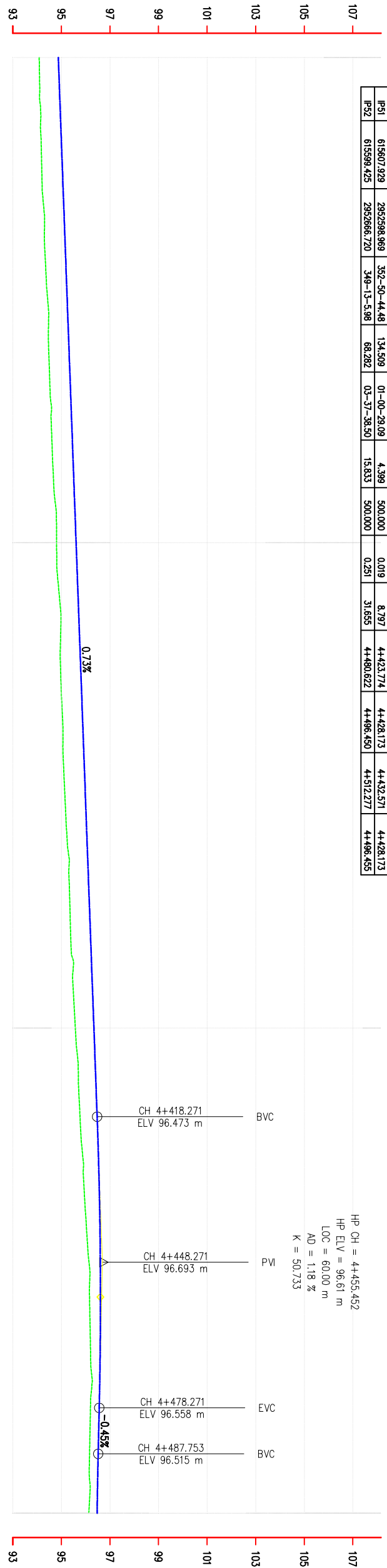
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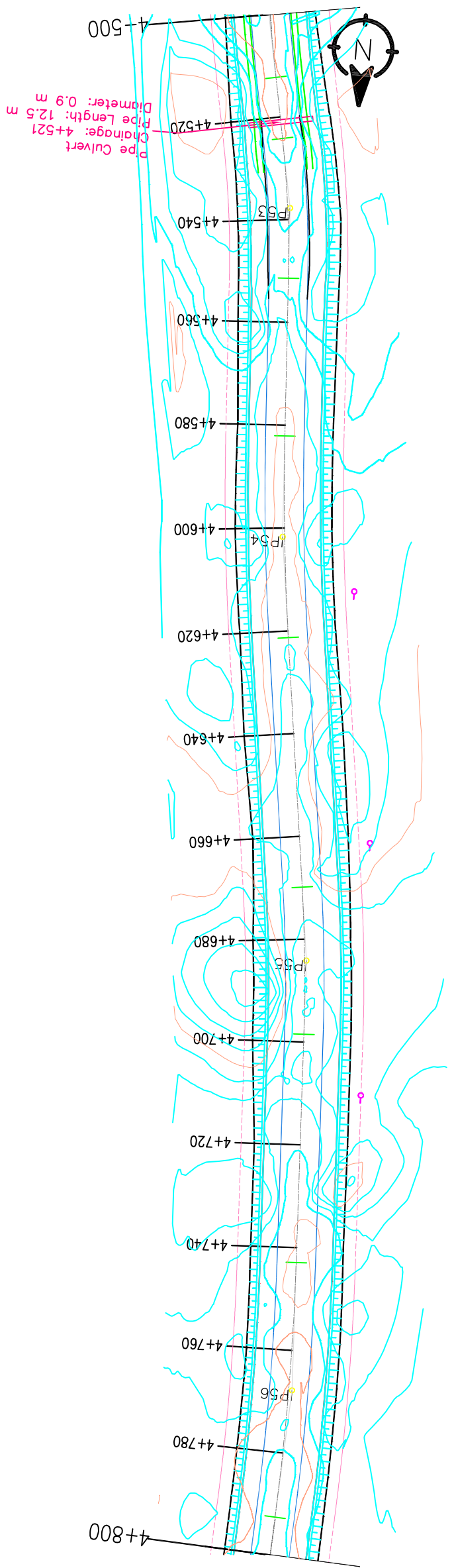
IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DST (m)	DEF. ANG (0-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
IP49	615633.552	2952376.680	352-46-40.50	101.622	17-20-2.84	16.788	110.000	1.271	33.279	4+187.891	4+204.531	4+221.170	4+204.659	
IP50	615622.330	2952465.233	353-51-13.57	88.282	01-04-33.07	4.694	500.000	0.022	9.389	4+288.970	4+293.664	4+298.358	4+293.664	
IP51	615607.929	2952598.869	352-50-44.48	134.509	01-00-28.09	4.399	500.000	0.019	8.797	4+423.774	4+428.173	4+432.571	4+428.173	
IP52	615599.425	2952686.720	349-13-5.98	66.282	03-37-38.50	15.833	500.000	0.251	31.655	4+490.622	4+496.450	4+512.277	4+496.455	



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
94.873	94.087	4+200	L = 33.279 R = 110
94.947	94.139	4+210	
95.020	94.179	4+220	
95.093	94.258	4+230	
95.167	94.321	4+240	
95.240	94.439	4+250	
95.313	94.475	4+260	
95.386	94.544	4+270	
95.460	94.617	4+280	
95.533	94.708	4+290	
95.606	94.804	4+300	L = 67.799 R = 110
95.680	94.898	4+310	
95.753	94.965	4+320	
95.826	94.992	4+330	
95.900	95.064	4+340	
95.973	95.126	4+350	
96.046	95.225	4+360	
96.119	95.323	4+370	
96.193	95.377	4+380	
96.266	95.464	4+390	
96.339	95.574	4+400	L = 125.416 R = 500
96.413	95.699	4+410	
96.486	95.784	4+420	
96.546	95.901	4+430	
96.586	96.018	4+440	
96.606	96.173	4+450	
96.607	96.176	4+460	
96.589	96.215	4+470	
96.550	96.191	4+480	
96.506	96.151	4+490	
96.472	96.131	4+500	L = 31.655 R = 500



Government of Nepal Ministry of Municipal Executive Nepal Urban Governance and Infrastructure Project (NUGIP)		CONSULTANT: C2Tech - GIDAN JV		DATE:		DESIGNED BY:		SCALE:		DATE:	
Koshi Province Jhapa, Nepal		SURyadayamarga Suryodaya Marga		REVISION:		CHECKED BY:		HORIZONTAL 1:1000 VERTICAL 1:1000		DRG NO:	
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IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DIST. (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SAMPLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
IP2	615599.425	2952866.720	349-13-5.98	68.282	03-37-38.50	15.833	500.000	0.251	31.655	4+480.622	4+496.450	4+512.277	4+498.455
IP3	615591.682	2952707.382	356-38-39.03	41.393	07-25-33.05	13.628	210.000	0.442	27.217	4+524.210	4+537.818	4+551.427	4+537.837
IP4	615587.940	2952771.186	352-08-58.53	63.914	04-29-39.50	19.620	500.000	0.385	39.220	4+582.083	4+601.703	4+621.313	4+601.713
IP5	615576.672	2952852.918	357-16-5.32	82.505	05-07-5.79	14.302	320.000	0.319	28.596	4+689.895	4+694.188	4+698.481	4+694.198
IP6	615572.689	2952936.395	02-57-27.15	83.573	05-41-21.83	24.845	500.000	0.617	49.649	4+742.906	4+767.731	4+792.555	4+767.751



CHAINAGE(km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)	HORIZONTAL SCHEMATIC
4+500	96.131	96.472	L = 31.655 R = 500
4+510	96.089	96.455	
4+520	96.015	96.453	L=11.933 R = 210
4+530	95.884	96.467	
4+540	95.769	96.497	L = 27.217 R = 210
4+550	95.721	96.542	
4+560	95.790	96.592	L=30.666 R = 500
4+570	95.879	96.642	
4+580	96.105	96.692	L = 39.220 R = 500
4+590	96.047	96.742	
4+600	96.145	96.792	L = 48.582 R = 320
4+610	96.131	96.842	
4+620	96.120	96.892	L = 28.586 R = 320
4+630	96.187	96.942	
4+640	96.276	96.992	L=44.425 R = 500
4+650	96.298	97.043	
4+660	96.281	97.093	L = 49.649 R = 500
4+670	96.324	97.143	
4+680	96.420	97.193	L = 44.425 R = 500
4+690	96.533	97.243	
4+700	96.596	97.293	L = 44.425 R = 500
4+710	96.646	97.343	
4+720	96.741	97.393	L = 44.425 R = 500
4+730	96.836	97.443	
4+740	96.965	97.493	L = 44.425 R = 500
4+750	97.055	97.543	
4+760	97.094	97.593	L = 44.425 R = 500
4+770	97.157	97.643	
4+780	97.191	97.696	L = 44.425 R = 500
4+790	97.287	97.752	
4+800	97.352	97.813	L = 44.425 R = 500

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
CZTech - GIBAN JV

**SURYADAYAMARGA**  
Suryodaya Marga

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REVISION: \_\_\_\_\_

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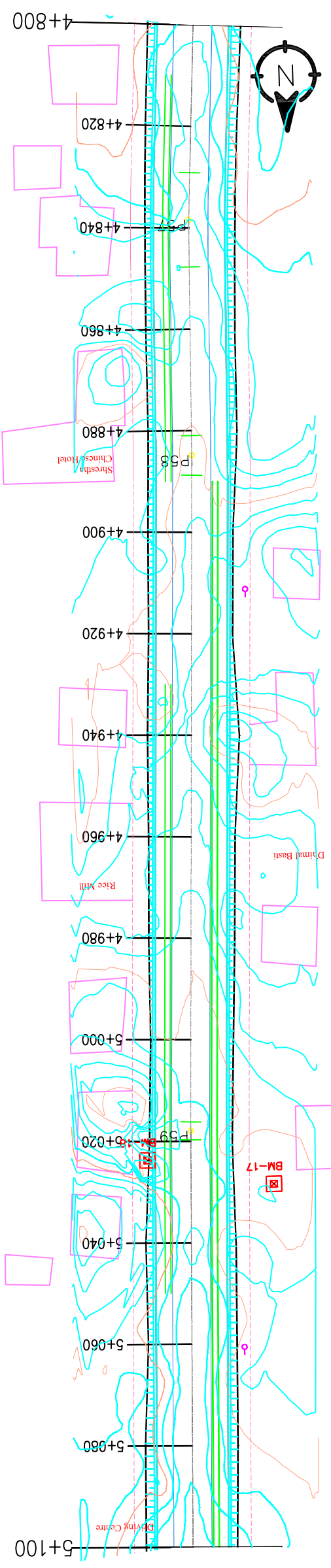
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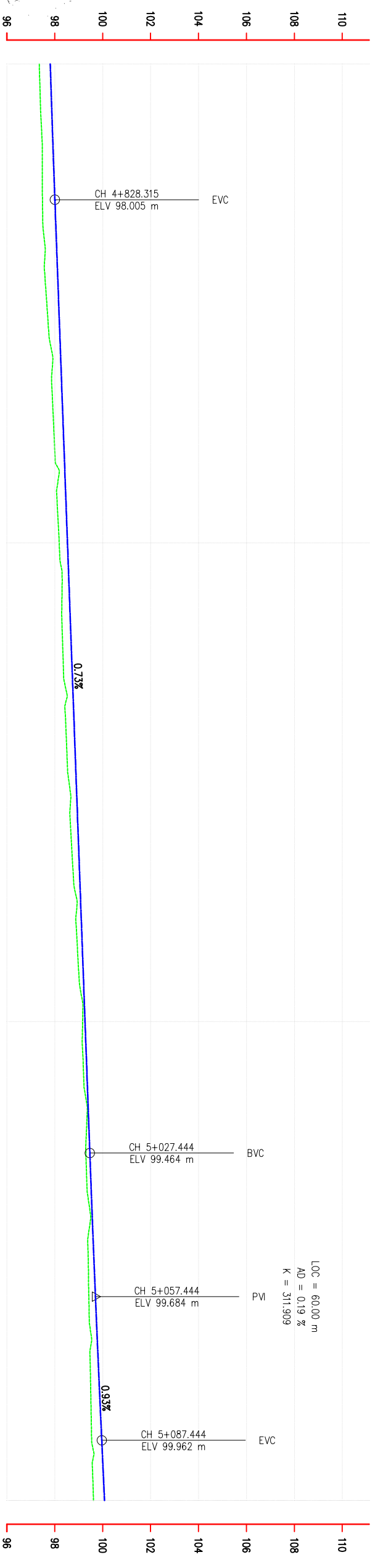
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IP No.	CO-ORDINATES(m)		WCB (D-M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN (m)	SIMPLE CURVE DATA					
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC
IP56	615572.689	2952936.395	02-57-27.15	83.573	05-41-21.83	24.845	500.000	0.617	49.649	4+742.906	4+767.731	4+767.731
IP57	615576.337	2953007.017	00-49-32.17	70.716	02-07-54.98	9.303	500.000	0.087	18.605	4+829.123	4+838.425	4+838.428
IP58	615577.006	2953053.436	01-43-10.49	46.424	00-53-38.32	3.901	500.000	0.015	7.801	4+880.947	4+884.848	4+884.848
IP59	615580.999	2953186.450	01-18-59.81	133.073	00-24-10.67	1.758	500.000	0.003	3.517	5+016.163	5+019.921	5+017.921
IP60	615583.145	2953279.788	03-06-20.50	93.363	01-47-20.68	7.807	500.000	0.091	15.613	5+103.477	5+111.283	5+111.284



CHAINAGE(Km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)
4+800	97.352	97.813
4+810	97.411	97.877
4+820	97.478	97.945
4+830	97.490	98.017
4+840	97.590	98.090
4+850	97.668	98.164
4+860	97.875	98.237
4+870	97.903	98.310
4+880	97.994	98.384
4+890	98.083	98.457
4+900	98.186	98.530
4+910	98.304	98.603
4+920	98.321	98.677
4+930	98.441	98.750
4+940	98.476	98.823
4+950	98.595	98.897
4+960	98.667	98.970
4+970	98.780	99.043
4+980	98.893	99.116
4+990	99.005	99.190
5+000	99.163	99.263
5+010	99.196	99.336
5+020	99.346	99.410
5+030	99.315	99.483
5+040	99.485	99.559
5+050	99.401	99.638
5+060	99.433	99.720
5+070	99.471	99.805
5+080	99.512	99.894
5+090	99.627	99.985
5+100	99.618	100.078

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

**SURYADAYAMARGA**  
Suryodaya Marg

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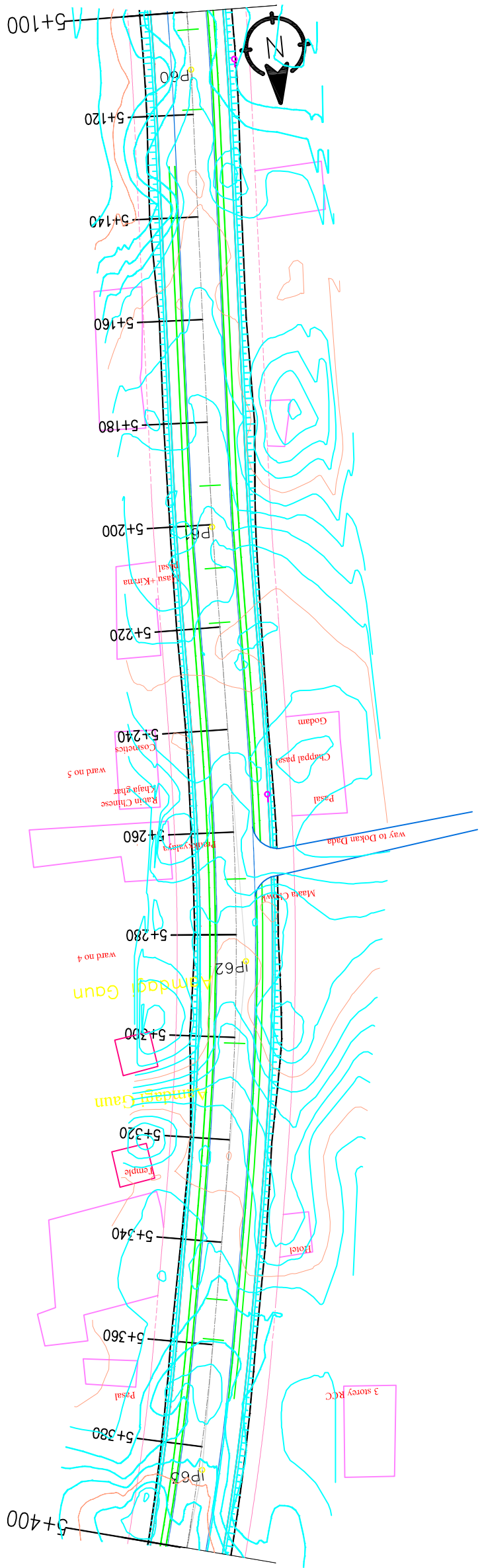
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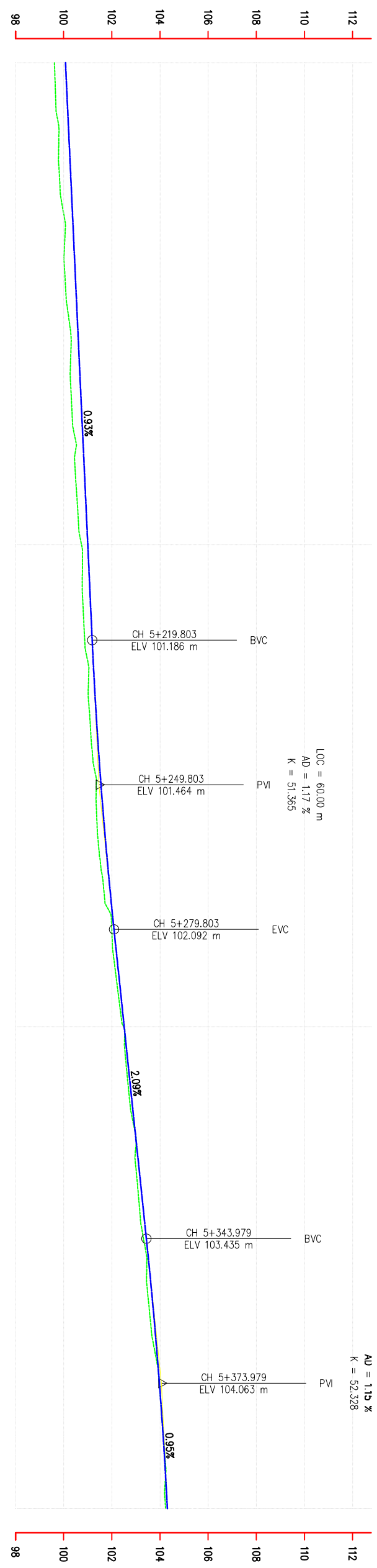
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IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DST (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA		CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
IP60	615563.145	2953279.788	03-06-20.50	93.363	01-47-20.88	7.807	500.000	0.061	15.613	5+103.477	5+111.283	5+119.090	5+111.284
IP61	615567.974	2953368.797	01-15-30.40	89.140	01-50-50.10	8.061	500.000	0.065	16.120	5+192.362	5+200.422	5+208.483	5+200.423
IP62	615568.837	2953453.612	10-39-18.38	84.835	09-23-47.98	66.110	500.000	1.895	32.001	5+269.147	5+285.147	5+301.148	5+285.257
IP63	615608.231	2953551.378	16-29-51.23	99.481	05-50-32.85	25.515	500.000	0.651	50.985	5+359.004	5+384.497	5+409.990	5+384.519



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)	HORIZONTAL SCHEMATIC
100.078	99.618	5+100	
100.170	99.685	5+110	
100.263	99.786	5+120	
100.355	99.955	5+130	
100.448	100.015	5+140	
100.540	100.131	5+150	
100.633	100.301	5+160	
100.725	100.324	5+170	
100.818	100.511	5+180	
100.910	100.550	5+190	
101.003	100.743	5+200	
101.095	100.777	5+210	
101.188	100.877	5+220	
101.291	101.023	5+230	
101.413	101.136	5+240	
101.554	101.359	5+250	
101.715	101.404	5+260	
101.896	101.637	5+270	
102.096	101.999	5+280	
102.305	102.187	5+290	
102.514	102.486	5+300	
102.724	102.636	5+310	
102.933	102.891	5+320	
103.142	103.014	5+330	
103.352	103.191	5+340	
103.558	103.450	5+350	
103.746	103.583	5+360	
103.915	103.887	5+370	
104.065	104.064	5+380	
104.196	104.222	5+390	
104.308	104.230	5+400	

Government of Nepal  
 Mechlingar Municipality  
 Office of Municipal Executive  
 Nepal Urban Governance and Infrastructure Project(UNURP)  
 Koshi Province  
 Jhapa, Nepal

CONSULTANT:  
 CZTech - GIDAN JV

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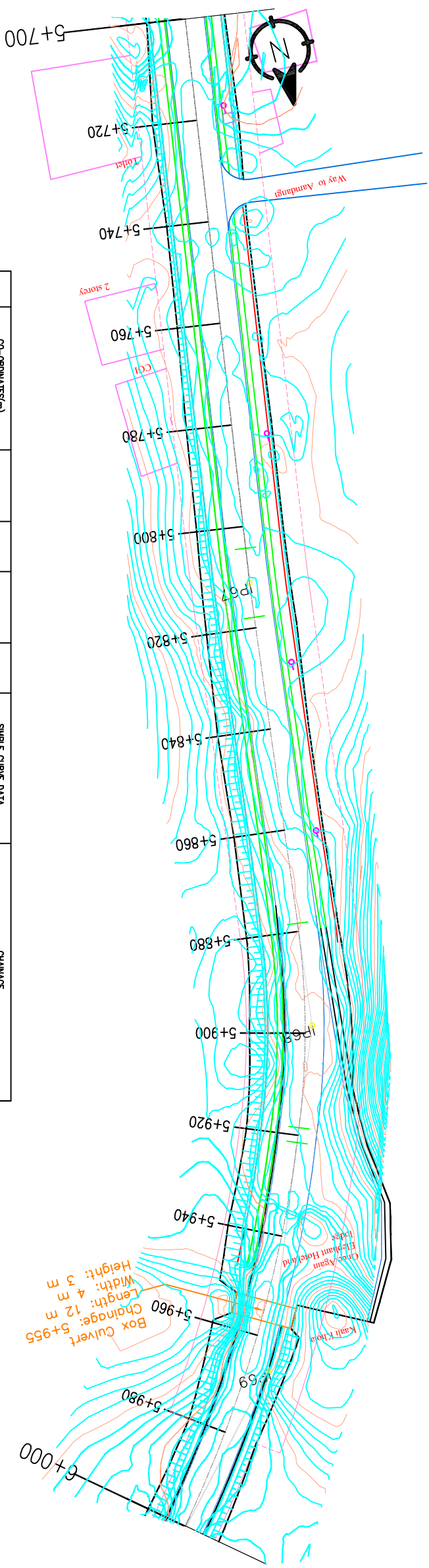
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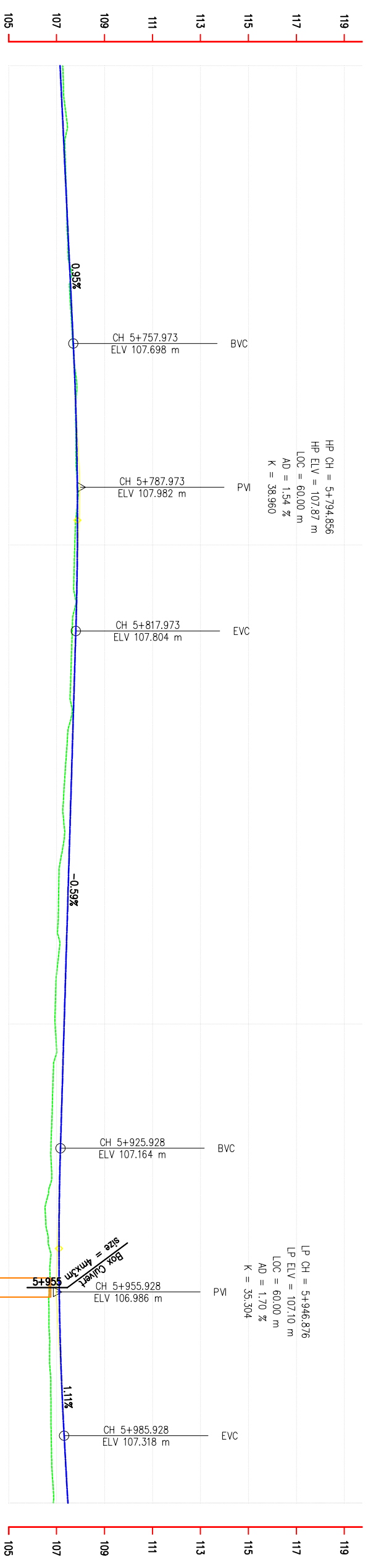
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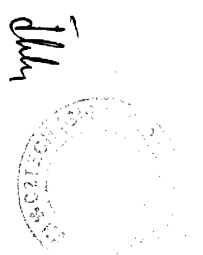




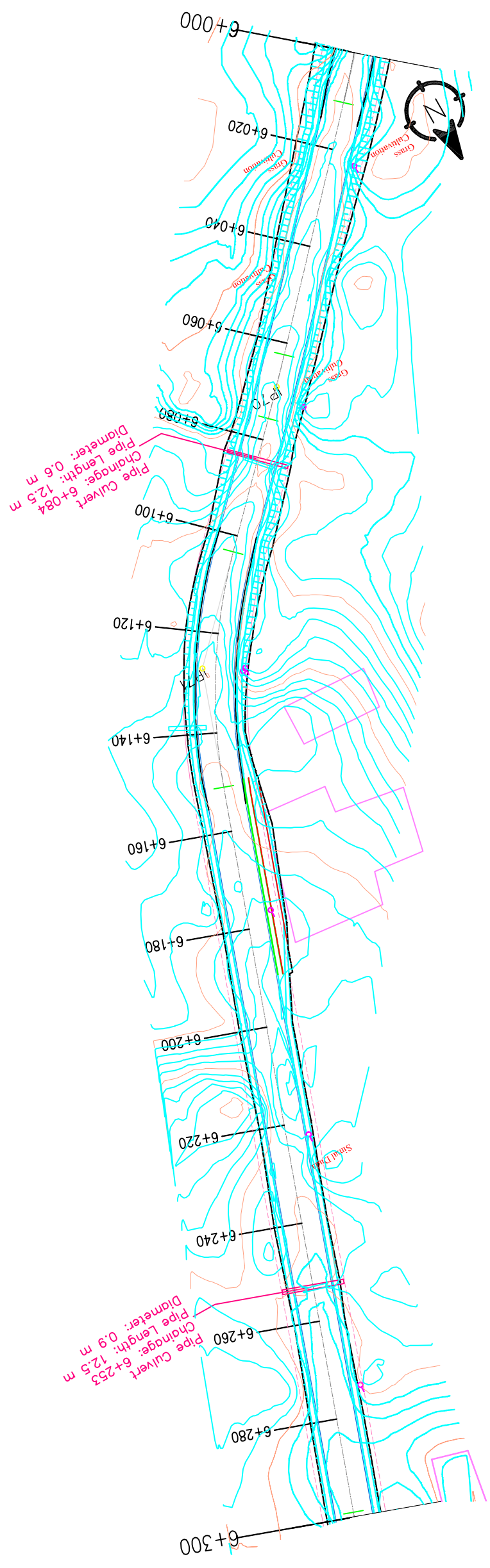
IP No.	CO-ORDINATES(m)		WCB (D-M-S)	DST. (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA				CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
IP66	615672.733	2953925.895	08-36-28.90	132.378	00-02-37.76	0.191	500.000	0.000	0.382	5+667.007	5+667.198	5+667.389	5+667.198	
IP67	615694.323	2953968.153	07-02-56.35	143.919	01-33-31.56	6.802	500.000	0.046	13.603	5+804.315	5+811.117	5+817.918	5+811.117	
IP68	615705.055	2954054.949	22-22-42.4	87.457	15-19-8.89	20.173	150.000	1.350	40.105	5+878.400	5+888.453	5+918.506	5+898.573	
IP69	615730.946	2954117.866	42-44-34.61	68.036	20-22-30.37	44.926	250.000	4.005	88.903	5+921.443	5+965.894	5+966.369	5+966.369	



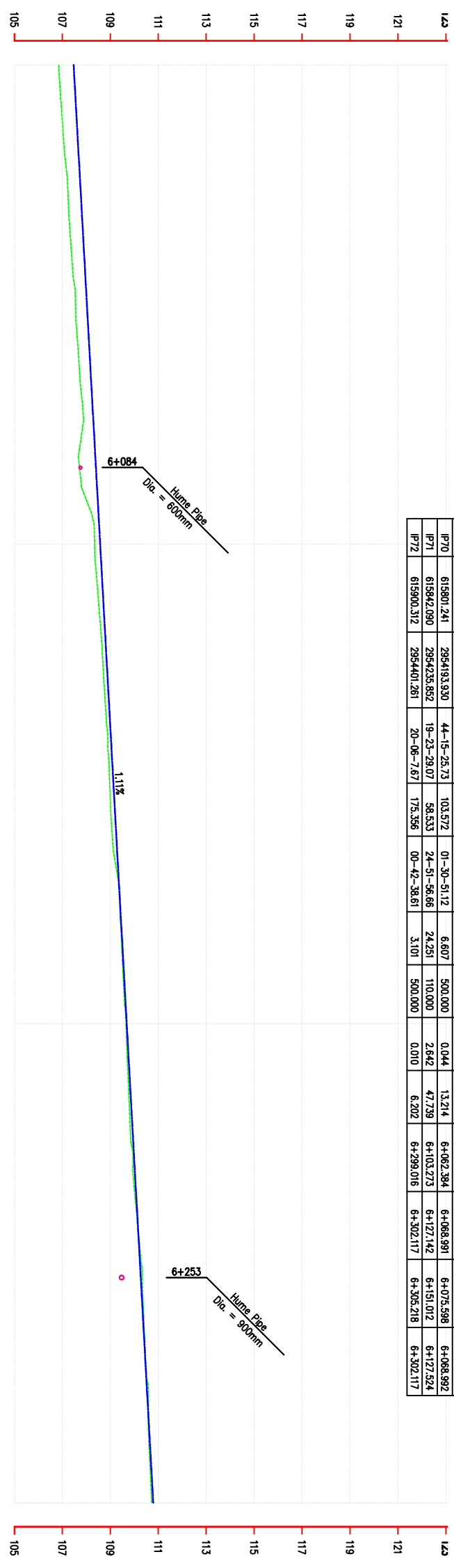
DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)	HORIZONTAL SCHEMATIC
107.149	107.258	5+700	
107.244	107.391	5+710	
107.339	107.369	5+720	
107.434	107.427	5+730	
107.528	107.487	5+740	
107.623	107.581	5+750	
107.717	107.704	5+760	
107.794	107.806	5+770	
107.845	107.807	5+780	
107.870	107.898	5+790	
107.870	107.761	5+800	
107.843	107.740	5+810	
107.792	107.641	5+820	
107.733	107.579	5+830	
107.674	107.460	5+840	
107.614	107.326	5+850	
107.555	107.341	5+860	
107.496	107.099	5+870	
107.436	107.050	5+880	
107.377	106.991	5+890	
107.318	106.940	5+900	
107.258	106.866	5+910	
107.199	106.806	5+920	
107.142	106.788	5+930	
107.108	106.538	5+940	
107.103	106.733	5+950	
107.126	106.688	5+960	
107.177	106.711	5+970	
107.257	106.764	5+980	
107.363	106.795	5+990	
107.473	106.862	6+000	



Government of Nepal Ministry of Urban Development and Infrastructure Nepal Urban Governance and Infrastructure Project (NUGIP)	CONSULTANT: C2Tech - GIDAN JV	SURyadodayamarga Suryodaya Marg	DATE:	REVISION:	SIGNATURE:	DESIGNED BY:	SCALE: HORIZONTAL 1:1000 VERTICAL 1:1000	Plan & Profile	DATE:
Nepal Urban Governance and Infrastructure Project (NUGIP) Koshi Province Jhapa, Nepal						DRAWN BY:			DRG NO:
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						APPROVED BY:			20



IP No.	CO-ORDINATES(m)		WCB (D-M-S)	DIST (m)	DEF ANG (D-M-S)	TAN LEN (m)	SIMPLE CURVE DATA					CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP			
IP69	615120.946	295417.266	42-44-34.61	68.026	20-22-30.37	44.926	250.000	4.005	88.903	5+921.443	5+965.894	6+010.346	5+966.369			
IP70	615801.241	295419.330	44-15-25.73	103.572	01-30-51.12	6.507	500.000	0.044	13.214	6+062.384	6+083.991	6+075.598	6+086.992			
IP71	615842.090	295425.852	19-23-29.07	58.533	24-51-56.66	24.251	110.000	2.642	47.739	6+127.142	6+127.142	6+151.012	6+127.524			
IP72	615900.312	2954401.261	20-08-7.67	175.356	00-42-38.61	3.101	500.000	0.010	6.202	6+299.016	6+302.117	6+305.218	6+302.117			



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
107.473	106.862	6+000	
107.584	106.978	6+010	
107.695	107.127	6+020	
107.805	107.263	6+030	
107.916	107.394	6+040	
108.026	107.552	6+050	
108.137	107.667	6+060	
108.248	107.826	6+070	
108.358	107.718	6+080	
108.469	107.945	6+090	
108.579	108.347	6+100	
108.690	108.478	6+110	
108.801	108.637	6+120	
108.911	108.752	6+130	
109.022	108.902	6+140	
109.133	108.978	6+150	
109.243	109.072	6+160	
109.354	109.335	6+170	
109.464	109.444	6+180	
109.575	109.536	6+190	
109.686	109.665	6+200	
109.796	109.734	6+210	
109.907	109.818	6+220	
110.017	109.945	6+230	
110.128	110.105	6+240	
110.239	110.297	6+250	
110.349	110.383	6+260	
110.460	110.468	6+270	
110.571	110.590	6+280	
110.681	110.636	6+290	
110.792	110.727	6+300	

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

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C2Tech - GIDAN JV

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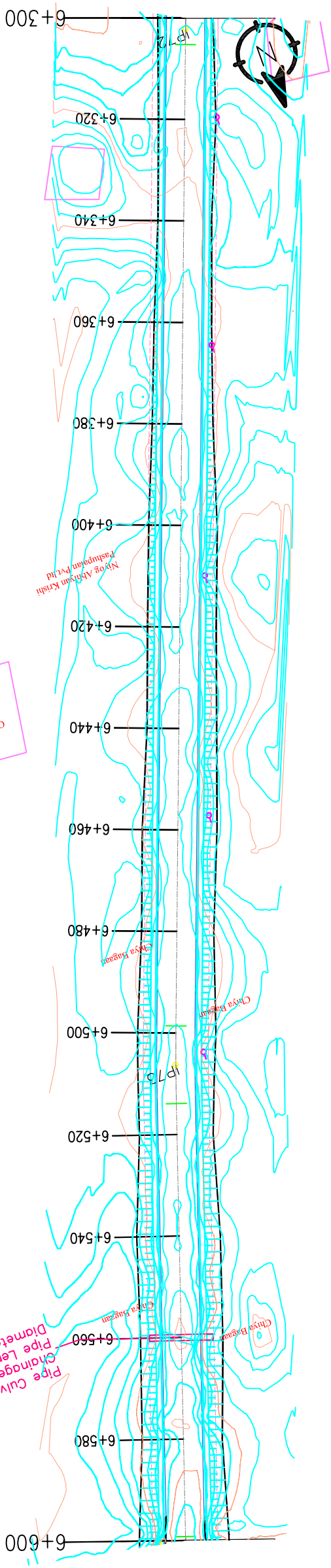
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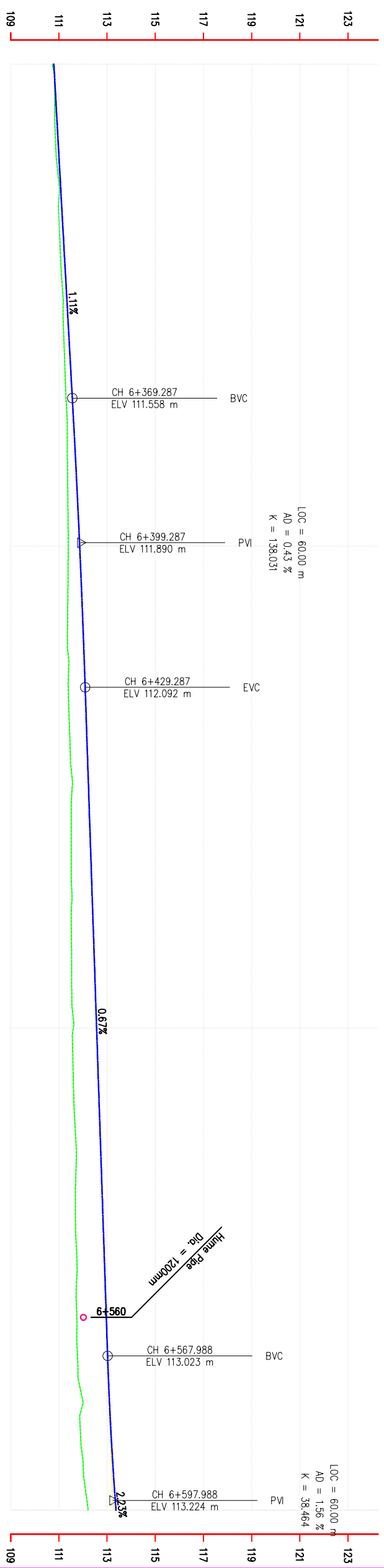
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IP No.	CO-ORDINATES(m)		WOB (0-M-S)	DST. (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SINGLE CURVE DATA					CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP			
IP22	615900.312	2954401.261	20-06-7.67	175.356	00-42-38.61	3.101	500.000	0.010	6.202	6+299.016	6+302.117	6+305.218	6+302.117	6+306.255		
IP23	615970.473	2954592.963	18-20-53.53	204.138	01-45-14.14	7.654	500.000	0.059	15.306	6+498.601	6+506.254	6+513.907	6+506.254	6+506.255		
IP24	616005.795	2954699.345	38-02-38.55	172.080	19-41-45.02	19.095	110.000	1.645	37.613	6+599.239	6+618.146	6+637.052	6+618.334	6+618.334		



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
110.792	110.727	6+300	
110.902	110.826	6+310	
111.013	110.906	6+320	
111.124	110.982	6+330	
111.234	111.071	6+340	
111.345	111.178	6+350	
111.456	111.229	6+360	
111.566	111.301	6+370	
111.673	111.348	6+380	
111.772	111.372	6+390	
111.864	111.390	6+400	
111.949	111.373	6+410	
112.026	111.354	6+420	
112.096	111.392	6+430	
112.163	111.457	6+440	
112.231	111.554	6+450	
112.298	111.511	6+460	
112.365	111.524	6+470	
112.432	111.518	6+480	
112.499	111.529	6+490	
112.566	111.597	6+500	
112.634	111.596	6+510	
112.701	111.670	6+520	
112.768	111.707	6+530	
112.835	111.690	6+540	
112.902	111.756	6+550	
112.969	111.741	6+560	
113.037	111.791	6+570	
113.122	111.888	6+580	
113.234	112.002	6+590	
113.371	112.216	6+600	

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(UNIGIP)  
Koshi Province  
Jhapa, Nepal

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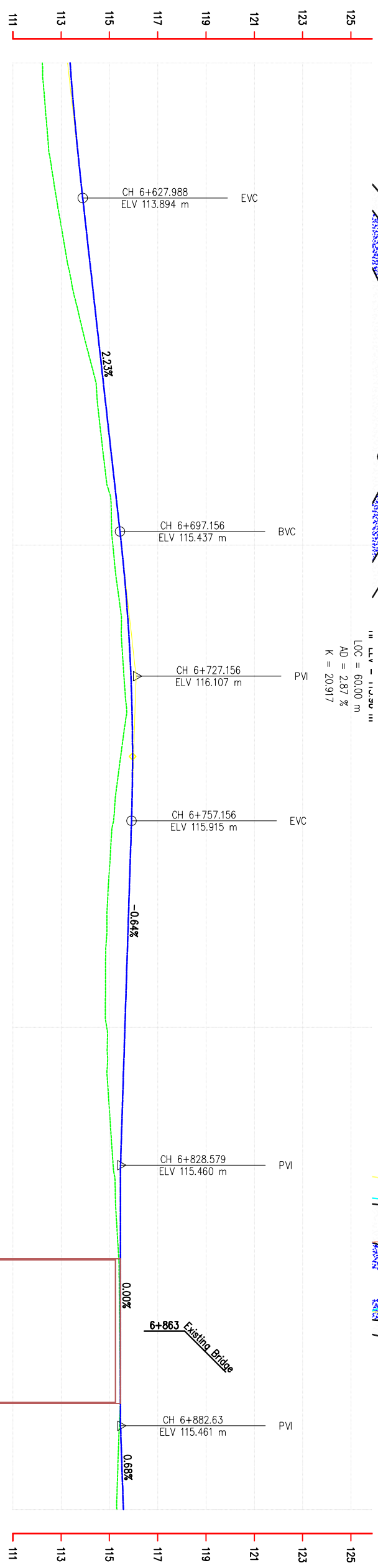
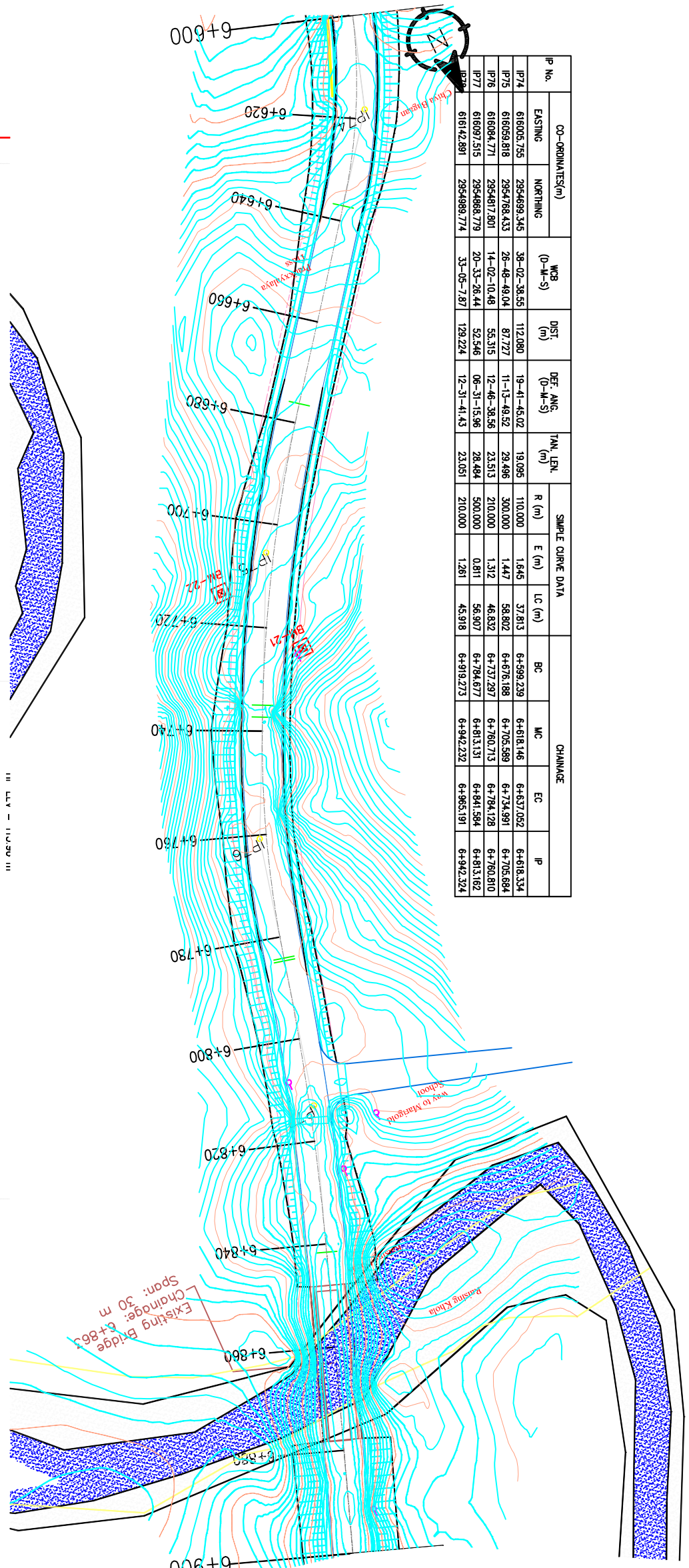
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IP No.	CO-ORDINATES(m)		WB (M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA					CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP			
IP74	616005.755	295499.345	38-02-38.55	112.090	19-41-45.02	19.095	110.000	1.645	37.813	6+599.239	6+618.146	6+637.052	6+618.334			
IP75	616059.918	2954768.433	26-48-49.04	97.727	11-53-49.52	29.496	300.000	1.447	36.802	6+676.188	6+705.599	6+734.991	6+705.694			
IP76	616084.771	2954817.801	14-02-10.48	55.315	12-46-38.56	23.513	210.000	1.312	46.832	6+737.297	6+760.713	6+784.128	6+760.810			
IP77	616097.515	2954988.779	20-33-26.44	52.546	08-31-15.96	28.494	500.000	0.811	56.907	6+784.677	6+813.131	6+841.584	6+813.162			
IP78	616142.891	2954989.774	33-05-7.87	129.224	12-31-41.43	23.051	210.000	1.261	45.918	6+919.273	6+942.232	6+965.191	6+942.324			



CHAINAGE(km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)
6+600	112.216	113.371
6+610	112.355	113.534
6+620	112.550	113.724
6+630	112.866	113.939
6+640	113.214	114.162
6+650	113.633	114.385
6+660	114.120	114.608
6+670	114.497	114.831
6+680	114.719	115.054
6+690	115.049	115.277
6+700	115.143	115.499
6+710	115.368	115.684
6+720	115.509	115.822
6+730	115.641	115.912
6+740	115.567	115.954
6+750	115.303	115.949
6+760	115.086	115.897
6+770	114.965	115.834
6+780	114.899	115.770
6+790	114.839	115.706
6+800	114.891	115.642
6+810	114.905	115.579
6+820	115.037	115.515
6+830	115.180	115.460
6+840	115.294	115.460
6+850	115.400	115.460
6+860	115.421	115.460
6+870	115.443	115.461
6+880	115.442	115.461
6+890	115.355	115.510
6+900	115.308	115.578

Government of Nepal  
Mechinagar Municipality  
Nepal Urban Governance and Infrastructure Project (NUGIP)

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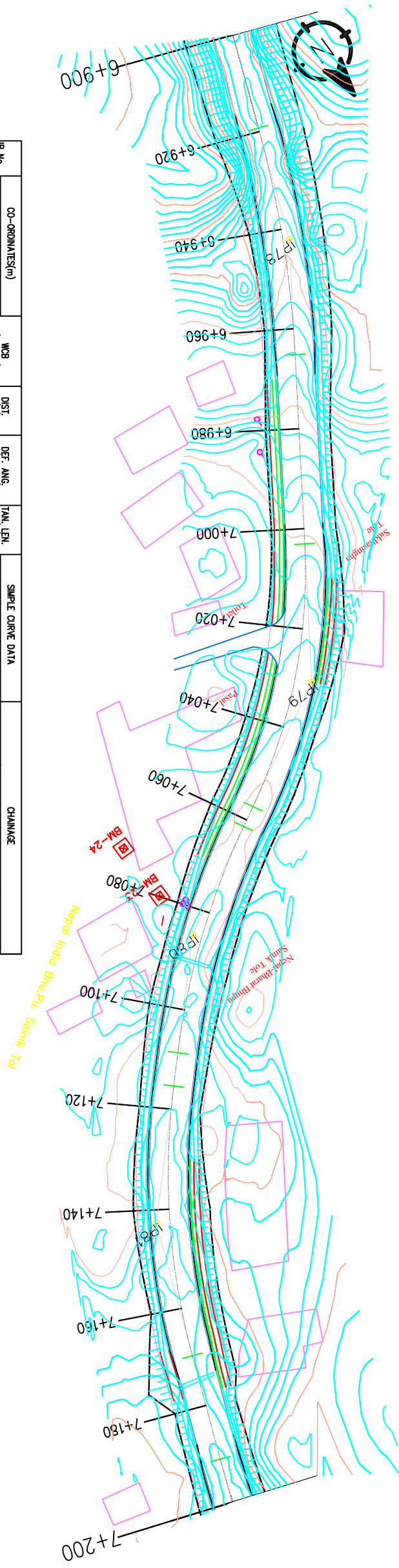
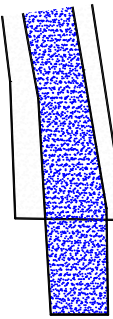
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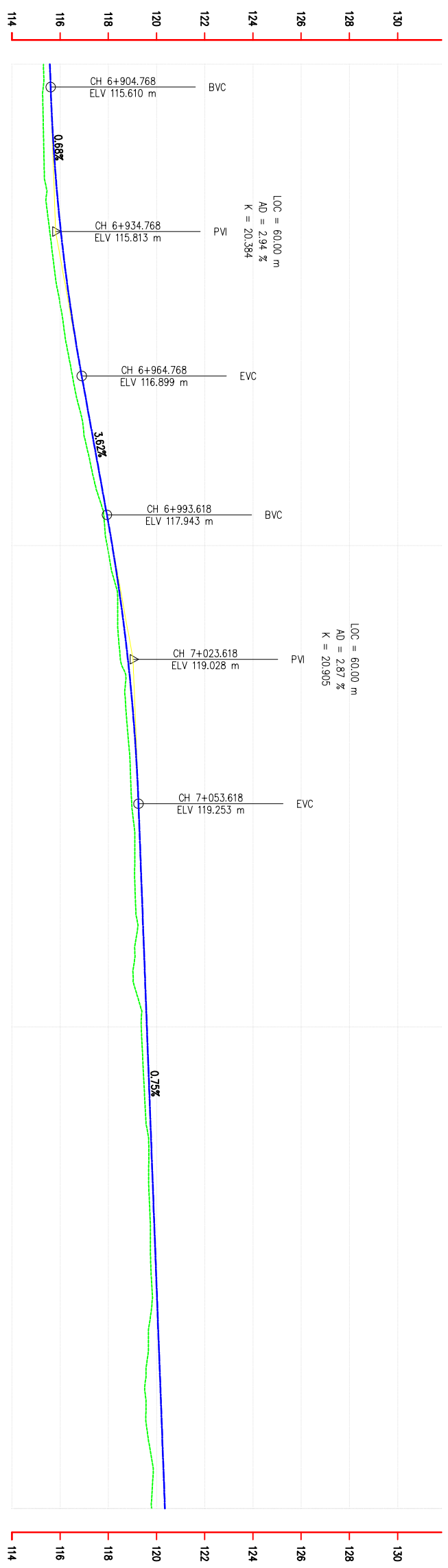
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Project Name: SURyadodayamarga  
Location: Suryodaya Marg





IP No.	CO-ORDINATES(m)		WCB (D-M-S)	DIST. (m)	DEF. ANG. (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA						CHAINAGE						
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	P	BC	MC	EC	P		
P78	616142.891	2954989.774	33-05-7.87	129.224	12-31-41.43	23.051	210.000	1.261	45.918	6+919.273	6+942.232	6+965.191	6+942.324						
P79	616191.175	2955063.882	61-13-2.69	88.450	28-07-54.82	27.561	110.000	3.400	54.009	7+003.029	7+030.034	7+057.039	7+030.590						
P80	616240.051	2955090.732	43-10-24.60	55.766	18-02-38.09	23.817	150.000	1.879	47.239	7+061.427	7+085.046	7+108.666	7+085.244						
P81	616279.745	2955133.041	20-55-46.78	58.014	22-14-37.33	27.523	140.000	2.680	54.352	7+115.341	7+142.317	7+169.693	7+142.864						
P82	616306.921	2955204.098	08-31-10.67	76.076	12-24-36.10	27.181	250.000	1.473	54.149	7+191.065	7+218.140	7+245.214	7+218.246						



CHAINAGE(km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)
6+900	115.308	115.578
6+910	115.294	115.652
6+920	115.334	115.770
6+930	115.455	115.937
6+940	115.702	116.153
6+950	116.004	116.418
6+960	116.334	116.732
6+970	116.722	117.088
6+980	117.128	117.450
6+990	117.611	117.812
7+000	117.956	118.164
7+010	118.385	118.471
7+020	118.438	118.731
7+030	118.685	118.943
7+040	118.826	119.107
7+050	118.940	119.223
7+060	119.104	119.301
7+070	119.100	119.376
7+080	119.202	119.451
7+090	119.033	119.525
7+100	119.370	119.600
7+110	119.461	119.675
7+120	119.566	119.750
7+130	119.675	119.825
7+140	119.737	119.900
7+150	119.766	119.975
7+160	119.753	120.050
7+170	119.591	120.125
7+180	119.561	120.199
7+190	119.811	120.274
7+200	119.792	120.349

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

**SURyadodayamarga**  
Suryodaya Marga

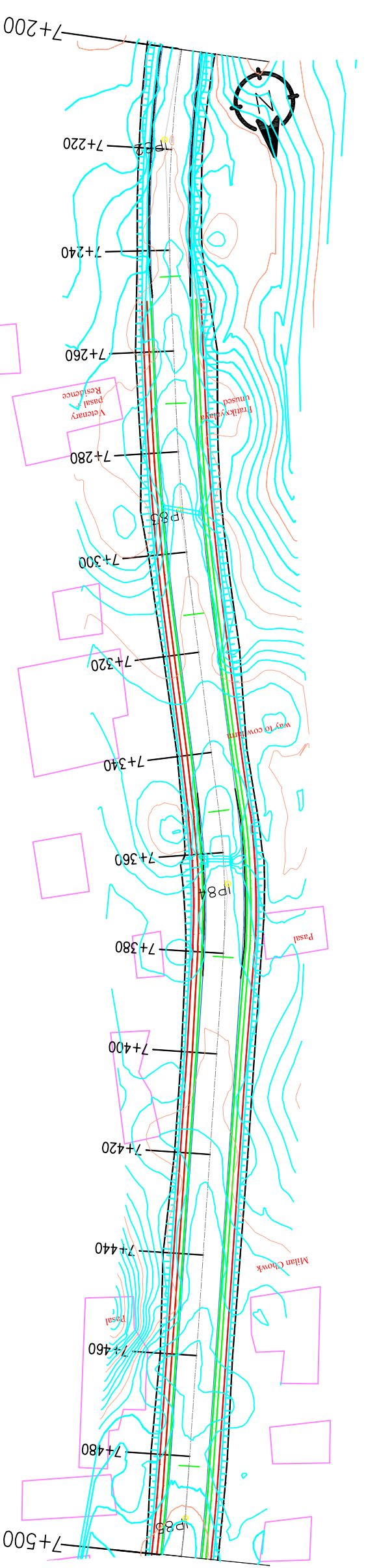
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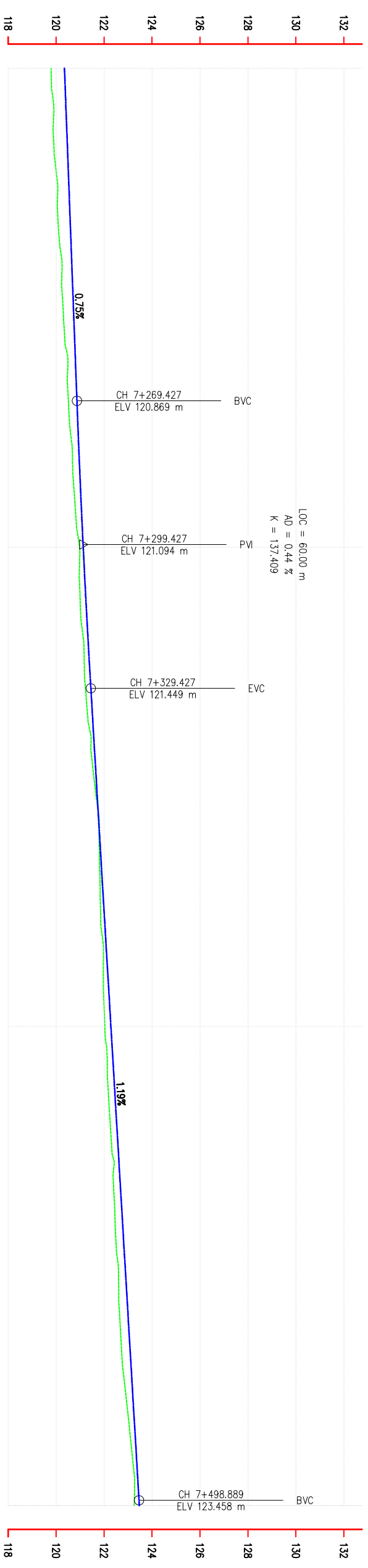
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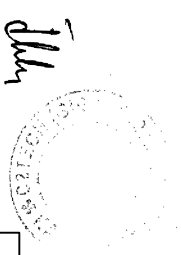
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IP No.	CO-ORDINATES(m)		WOB (D-M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN (m)	SIMPLE CURVE DATA		CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
IP82	616306.921	2965204.098	08-31-10.67	76.076	12-24-36.10	27.181	250.000	1.473	54.149	7+191.065	7+218.140	7+245.214	7+271.246
IP83	616317.792	2965276.666	03-42-35.89	73.378	04-48-34.78	20.998	500.000	0.441	41.972	7+270.413	7+291.400	7+312.386	7+291.412
IP84	616322.636	2965351.405	14-47-24.33	74.896	11-04-48.44	14.549	150.000	0.704	29.008	7+351.734	7+366.239	7+380.742	7+366.283
IP85	616334.834	2965473.349	17-09-57.41	126.122	02-22-33.08	10.368	500.000	0.107	20.733	7+481.947	7+492.314	7+502.680	7+492.315



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC		
120.349	119.792	7+200	L = 54.149 R = 250		
120.424	119.900	7+210			
120.499	119.969	7+220			
120.574	120.062	7+230			
120.649	120.239	7+240			
120.724	120.290	7+250		L = 25.199 R = 500	
120.798	120.481	7+260			
120.873	120.517	7+270			
120.952	120.680	7+280			
121.039	120.775	7+290			
121.132	120.983	7+300	L = 41.972 R = 500		
121.233	120.997	7+310			
121.341	121.157	7+320			
121.456	121.236	7+330			L = 39.349 R = 150
121.575	121.460	7+340			
121.693	121.624	7+350			
121.812	121.790	7+360			
121.930	121.832	7+370			
122.049	121.893	7+380		L = 29.008 R = 150	
122.168	121.973	7+390			
122.286	122.032	7+400			
122.405	122.133	7+410			
122.523	122.253	7+420			
122.642	122.395	7+430	L = 101.205 R = 500		
122.760	122.456	7+440			
122.879	122.595	7+450			
122.997	122.644	7+460			
123.116	122.757	7+470			
123.234	122.979	7+480			
123.353	123.185	7+490			
123.471	123.258	7+500			



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Nepal Urban Governance and Infrastructure Project (NUGIP)

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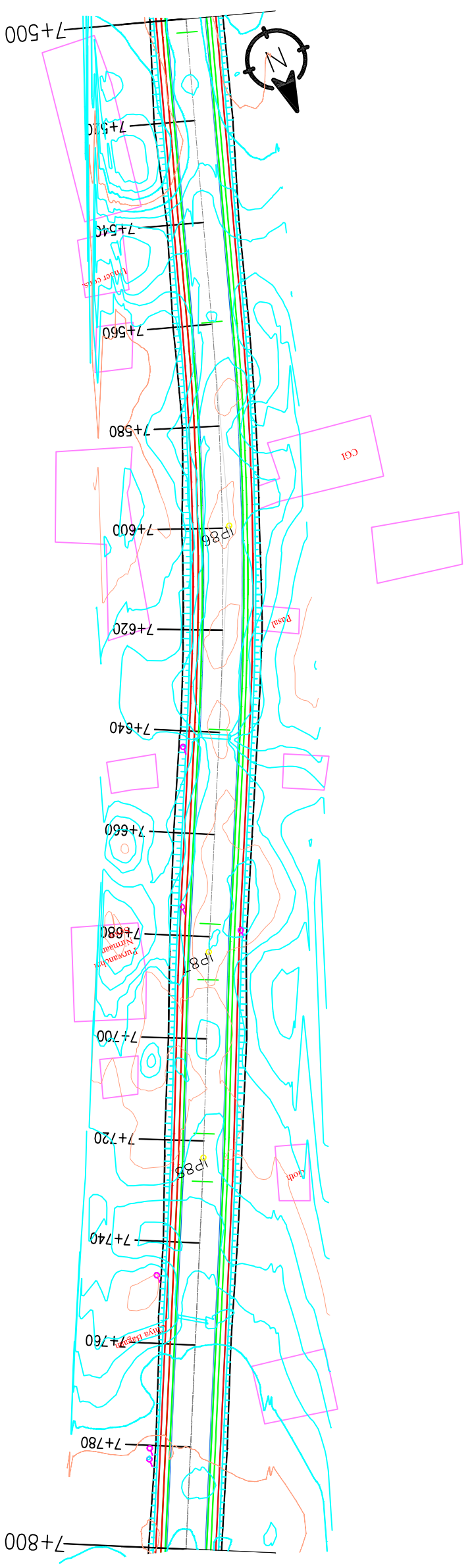
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Suryodaya Marg

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P No.	CO-ORDINATES(m)		WB (0-M-S)	DST (m)	DEF. ANG (0-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA					CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP			
IP85	616554.834	2955473.349	17-08-57.41	126.122	02-22-33.08	10.388	500.000	0.107	20.733	7+481.947	7+492.314	7+502.680	7+492.315			
IP86	616396.494	2955575.941	24-47-21.73	107.270	07-37-24.33	39.975	600.000	1.330	79.832	7+559.607	7+599.523	7+639.439	7+599.582			
IP87	616421.515	2955651.670	23-32-10.62	83.525	01-15-11.11	5.468	500.000	0.030	10.935	7+677.522	7+682.989	7+688.457	7+682.990			
IP88	616437.596	2955698.590	24-36-40.64	40.270	01-04-30.02	4.691	500.000	0.022	9.381	7+718.598	7+723.259	7+727.950	7+723.260			
IP89	616475.924	2955778.612	22-30-41.51	99.237	02-05-59.13	9.163	500.000	0.084	18.324	7+813.334	7+822.496	7+831.658	7+822.497			



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)	HORIZONTAL SCHEMATIC
123.471	123.258	7+500	L=56.927
123.583	123.401	7+510	
123.683	123.518	7+520	
123.771	123.597	7+530	
123.848	123.616	7+540	
123.913	123.703	7+550	
123.967	123.802	7+560	
124.016	123.846	7+570	
124.065	123.950	7+580	
124.114	123.975	7+590	
124.163	124.116	7+600	L = 79.832 R = 600
124.212	124.016	7+610	
124.261	124.068	7+620	
124.310	123.975	7+630	
124.359	123.951	7+640	
124.408	123.908	7+650	
124.457	123.984	7+660	
124.506	124.080	7+670	
124.555	124.134	7+680	
124.604	124.135	7+690	
124.653	124.159	7+700	L=38.082
124.704	124.218	7+710	
124.764	124.317	7+720	
124.834	124.399	7+730	
124.912	124.515	7+740	
125.000	124.643	7+750	
125.097	124.788	7+760	
125.200	124.908	7+770	
125.304	125.041	7+780	
125.407	125.128	7+790	
125.511	125.319	7+800	L=72.050

Government of Nepal  
Mechingra Municipality  
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Jhapa, Nepal

CONSULTANT:  
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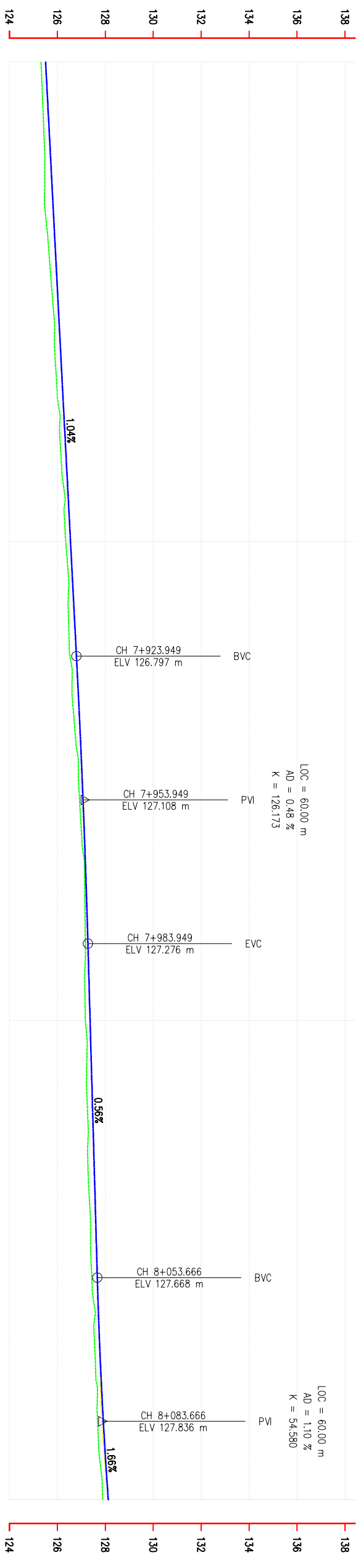
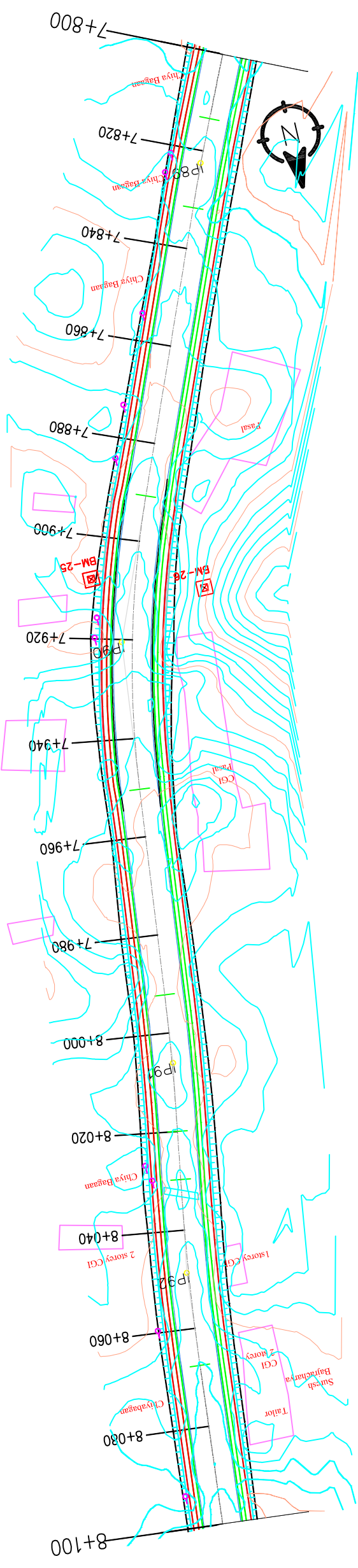
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IP No.	CO-ORDINATES(m)		WBS (0-M-S)	DIST (m)	DEF. ANG (0-M-S)	TAN. LEN (m)	SPLINE CURVE DATA					CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	Lc (m)	BC	MC	EC	IP		
IP88	616478.924	2955778.812	22-30-41.51	99.237	02-05-59.13	9.163	500.000	0.094	18.324	7+813.334	7+822.496	7+831.658	7+822.497		
IP90	616516.533	2955689.566	06-15-8.46	96.239	16-15-33.06	29.998	210.000	2.132	59.593	7+920.736	7+920.532	7+930.329	7+920.734		
IP91	616526.677	2955954.819	09-25-57.49	86.763	03-10-49.03	13.880	500.000	0.193	27.753	7+992.214	8+006.090	8+019.967	8+006.094		
IP92	616532.653	2955996.808	05-05-56.55	42.565	04-20-0.94	18.918	500.000	0.358	37.818	8+029.734	8+048.643	8+067.552	8+048.652		
IP93	616540.534	2956094.007	22-04-57.89	87.545	16-59-1.34	31.354	210.000	2.238	62.249	8+104.825	8+135.949	8+167.073	8+136.179		



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(km)	HORIZONTAL SCHEMATIC
125.511	125.319	7+800	$L=13.334$ $R=500$
125.615	125.402	7+810	
125.719	125.479	7+820	
125.822	125.470	7+830	
125.926	125.654	7+840	
126.030	125.812	7+850	
126.133	125.886	7+860	
126.237	126.007	7+870	
126.341	126.126	7+880	
126.444	126.300	7+890	
126.548	126.351	7+900	$L=59.078$ $R=210$
126.652	126.471	7+910	
126.756	126.488	7+920	
126.858	126.613	7+930	
126.953	126.743	7+940	
127.040	126.884	7+950	
127.119	126.996	7+960	
127.190	127.138	7+970	
127.253	127.162	7+980	
127.310	127.144	7+990	
127.366	127.167	8+000	$L=41.885$ $R=500$
127.422	127.225	8+010	
127.479	127.269	8+020	
127.535	127.275	8+030	
127.591	127.367	8+040	
127.647	127.404	8+050	
127.707	127.561	8+060	
127.784	127.577	8+070	
127.879	127.662	8+080	
127.992	127.738	8+090	
128.124	127.890	8+100	$L=9.767$ $R=500$

Government of Nepal  
 Mechi Region Municipality  
 Office of Municipal Executive  
 Nepal Urban Governance and Infrastructure Project (NUGIP)  
 Koshi Province  
 Jhapa, Nepal

CONSULTANT:  
 C2Tech - GIDAN JV

**SURYADAYAMARGA**  
 Suryodaya Marga

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

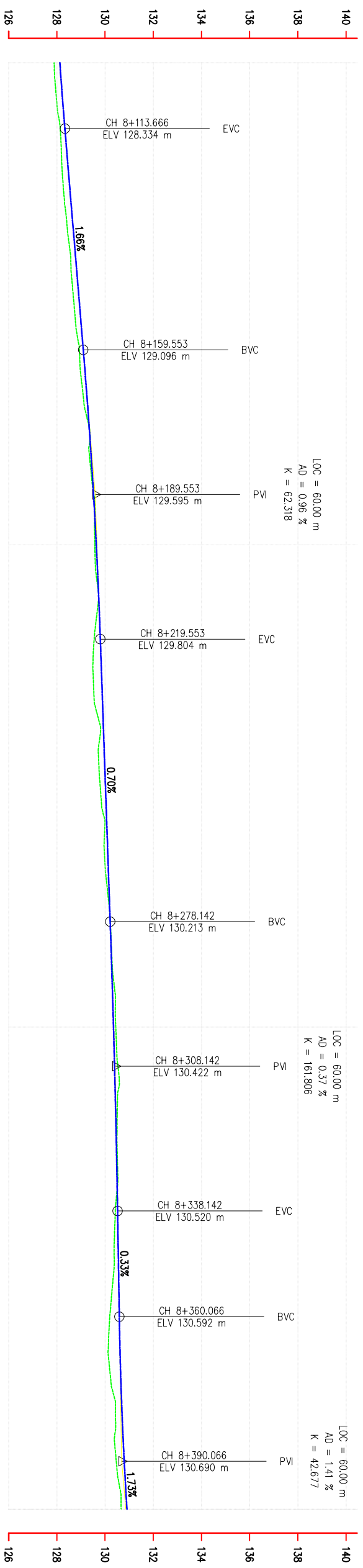
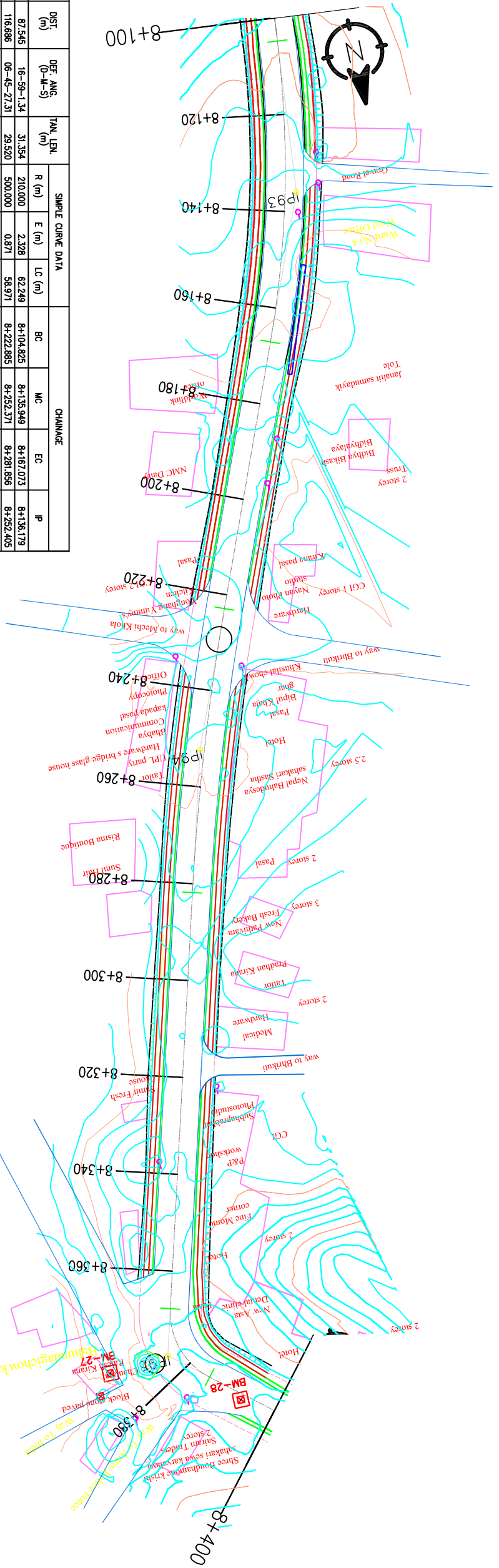
DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

SCALE:  
 HORIZONTAL 1:1000  
 VERTICAL 1:1000

**Plan & Profile**

DATE: \_\_\_\_\_  
 DRG NO: \_\_\_\_\_  
 SHEET NO: **27**

IP No.	CO-ORDINATES(m)		WCB (0-M-S)	DIST. (m)	DEF. ANG. (0-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA						
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
P93	616540.634	2956094.007	22-04-57.89	87.545	16-59-1.34	31.354	210.000	2.328	62.249	8+104.825	8+135.949	8+167.073	8+136.179
P94	616594.502	2956192.133	15-19-30.58	116.686	06-45-27.31	29.520	500.000	0.871	58.971	8+222.885	8+252.371	8+281.856	8+252.405
P95	616617.570	2956312.802	309-34-6.72	123.118	65-45-23.97	9.896	15.000	2.861	17.215	8+367.759	8+376.366	8+384.974	8+377.455



DESIGN LEVEL(m)	EXISTING LEVEL(m)	CHAINAGE(Km)	HORIZONTAL SCHEMATIC
128.124	127.890	8+100	L=4.825 R=210
128.275	128.026	8+110	
128.439	128.199	8+120	
128.606	128.342	8+130	
128.772	128.571	8+140	
128.938	128.711	8+150	
129.104	128.941	8+160	
129.261	129.113	8+170	
129.402	129.324	8+180	
129.528	129.549	8+190	
129.637	129.577	8+200	L=55.812 R=500
129.730	129.729	8+210	
129.807	129.543	8+220	
129.877	129.530	8+230	
129.947	129.782	8+240	
130.016	129.798	8+250	
130.086	129.678	8+260	
130.156	130.065	8+270	
130.226	130.234	8+280	
130.291	130.348	8+290	
130.351	130.445	8+300	L=65.903 R=15
130.404	130.578	8+310	
130.451	130.499	8+320	
130.492	130.525	8+330	
130.527	130.414	8+340	
130.559	130.374	8+350	
130.592	130.199	8+360	
130.636	130.174	8+370	
130.704	130.429	8+380	
130.795	130.465	8+390	
130.910	130.668	8+400	

Government of Nepal  
Mechingra Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project(NUGIS)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
CZTech - GIDAN JV

**SURYADAYAMARGA**  
Suryodaya Marga

DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

DRAWN BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

SCALE: HORIZONTAL 1:1000  
VERTICAL 1:1000

**Plan & Profile**

DATE: \_\_\_\_\_

DRG NO: \_\_\_\_\_

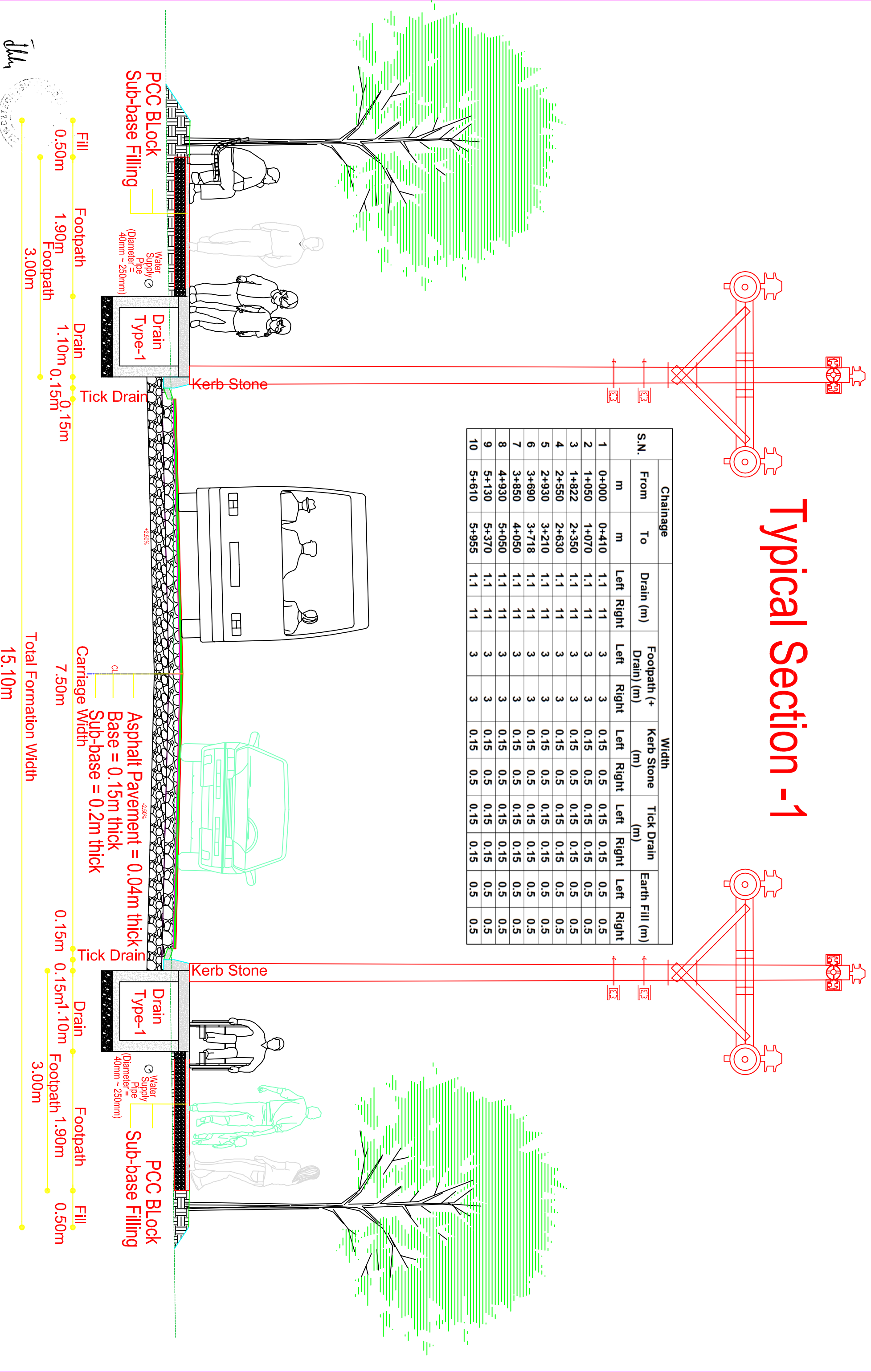
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**28**



# Typical Section - 1

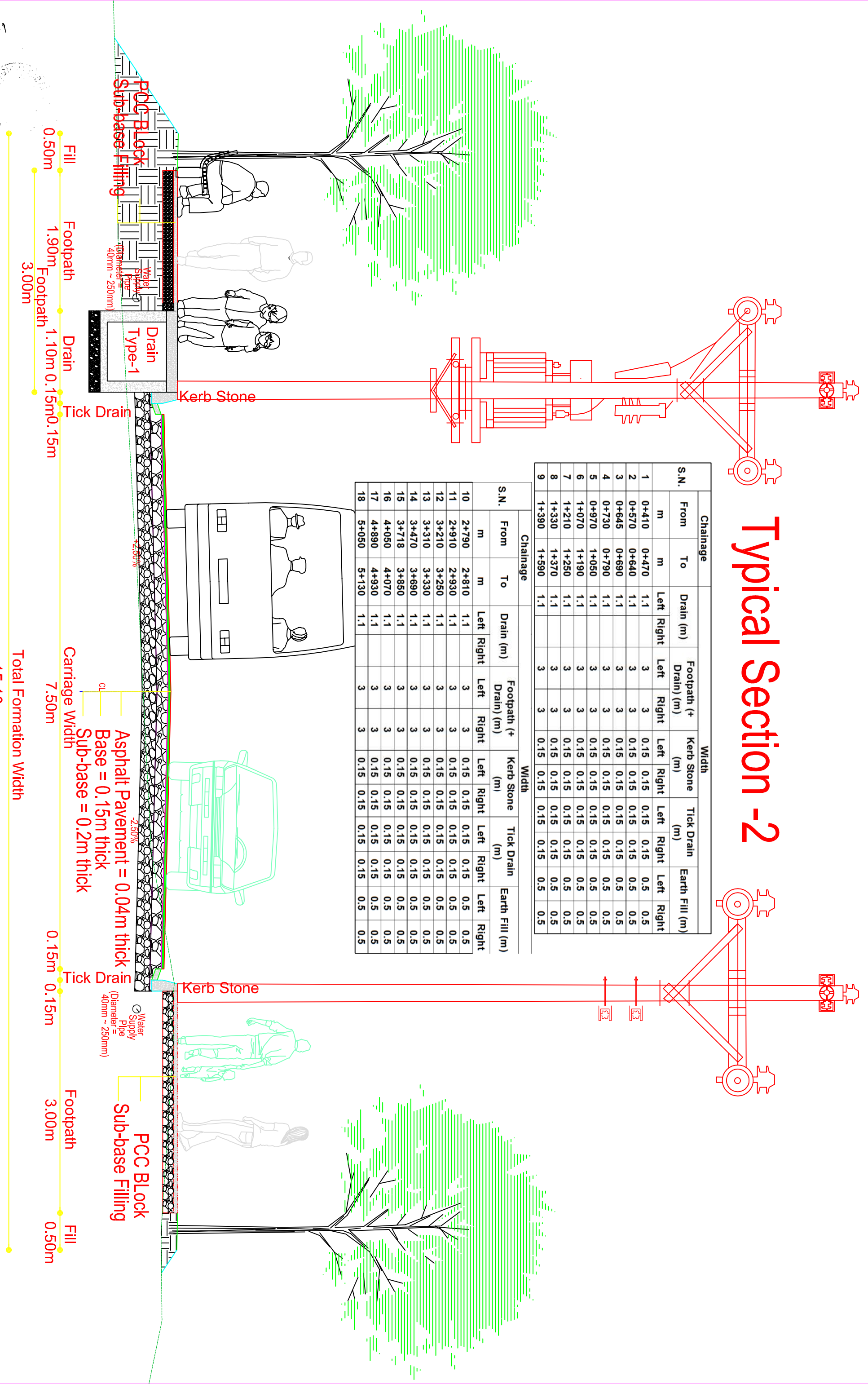
S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	0+000	0+410	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
2	1+050	1+070	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
3	1+822	2+350	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
4	2+550	2+630	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
5	2+930	3+210	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
6	3+690	3+718	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
7	3+850	4+050	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
8	4+930	5+050	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
9	5+130	5+370	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5
10	5+610	5+955	1.1	1.1	3	3	0.15	0.5	0.15	0.15	0.5	0.5



# Typical Section -2

S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	0+410	0+470	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
2	0+570	0+640	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
3	0+645	0+690	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
4	0+730	0+790	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
5	0+970	1+050	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
6	1+070	1+190	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
7	1+210	1+250	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
8	1+330	1+370	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
9	1+390	1+590	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5

S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
10	2+790	2+810	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
11	2+910	2+930	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
12	3+210	3+250	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
13	3+310	3+330	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
14	3+470	3+690	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
15	3+718	3+850	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
16	4+050	4+070	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
17	4+890	4+930	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
18	5+050	5+130	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5



Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project (NUGIP)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDAN JV

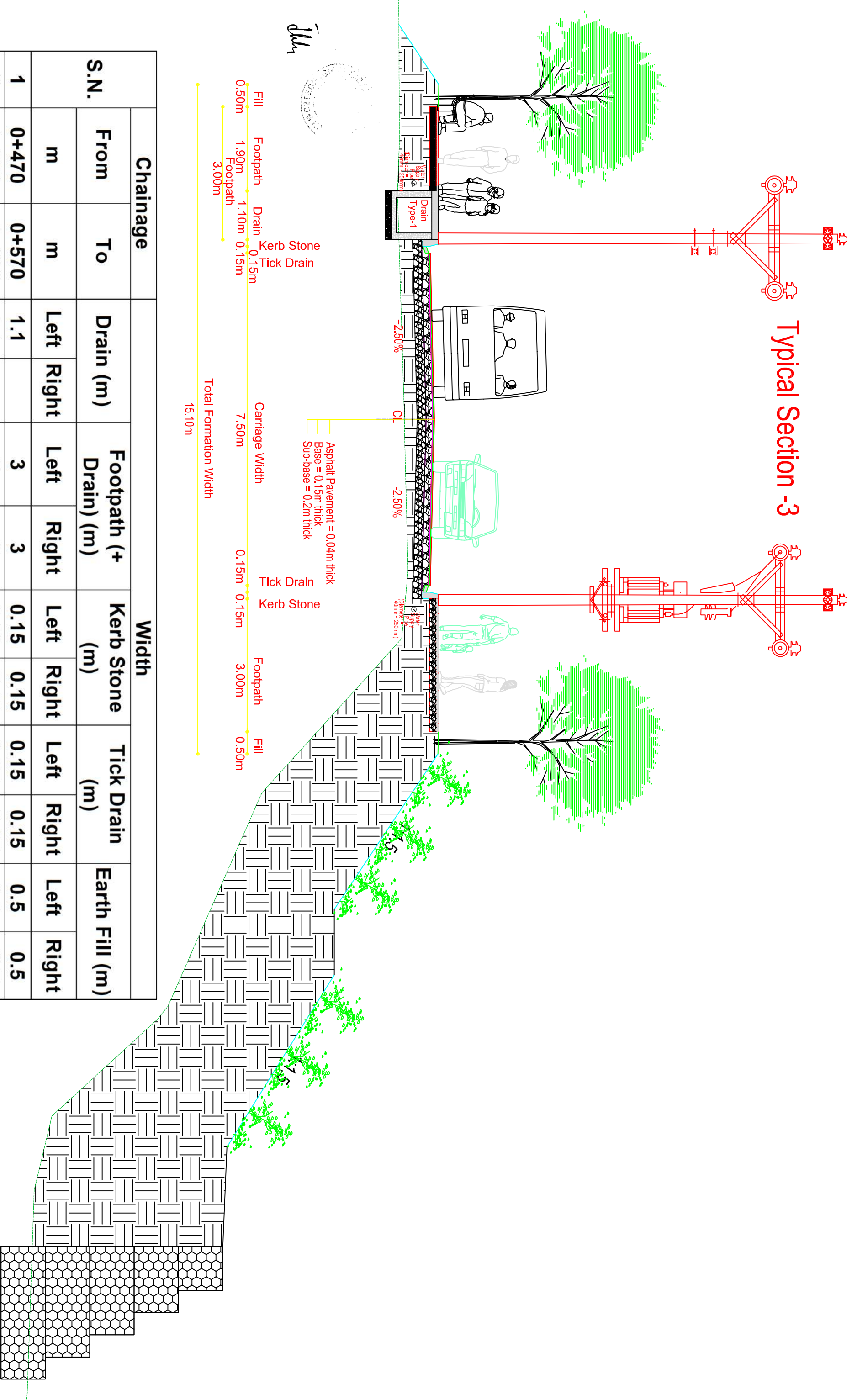
Sub-Project: Suryodaya Marga

DESIGNED BY :  
DRAWN BY :  
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APPROVED BY :

SCALE  
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DRG NO : 4  
SHEET NO : 4/3

# Typical Section -3



S.N.	Chainage		Width									
	From	To	Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
m	m	m	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	0+470	0+570	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5
2	1+250	1+330	1.1		3	3	0.15	0.15	0.15	0.15	0.5	0.5

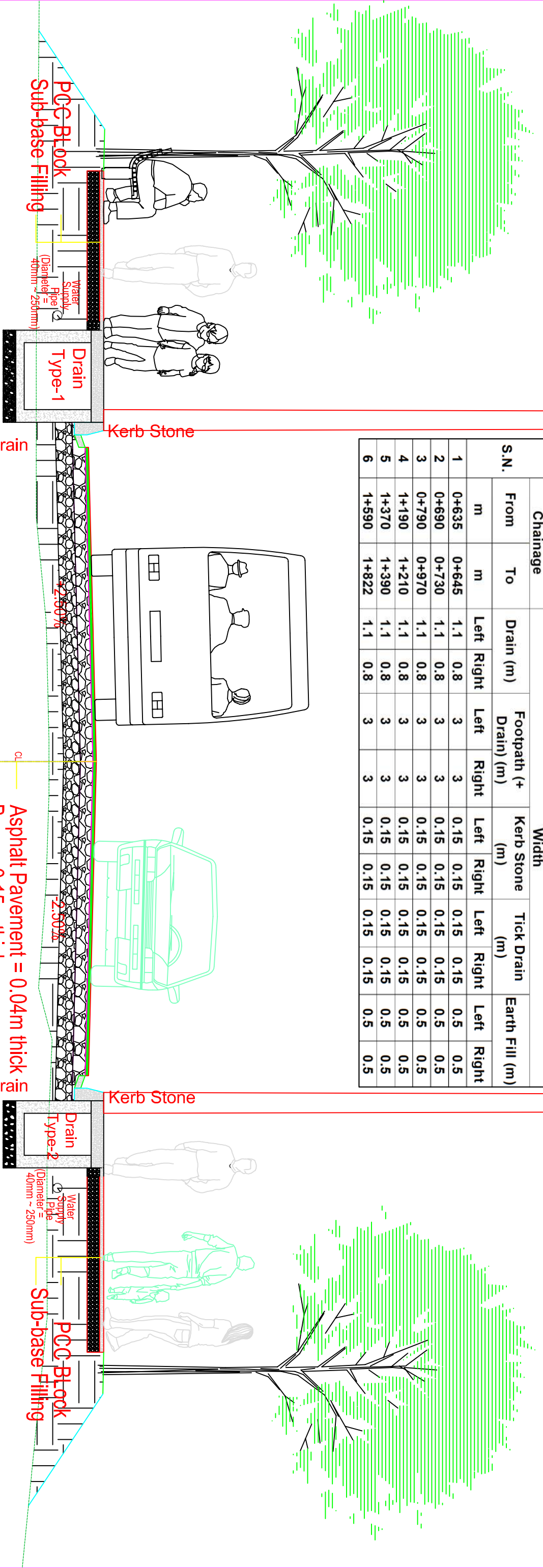
Government of Nepal Mechnagar Municipality Office of Municipal Executive Nepal Urban Governance and Infrastructure Project (NUGIP) Koshi Province Jhapa, Nepal	CONSULTANT: C2Tech - GIDAN JV	Sub-Project: Suryodaya Marga
DESIGNED BY : DRAWN BY : CHECKED BY : APPROVED BY :	SCALE 	Typical Cross Section Typical Section - 3
		DATE: DRG NO : 5 SHEET NO : 5/13



# Typical Section -4



S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	0+635	0+645	1.1	0.8	3	3	0.15	0.15	0.15	0.15	0.5	0.5
2	0+690	0+730	1.1	0.8	3	3	0.15	0.15	0.15	0.15	0.5	0.5
3	0+790	0+970	1.1	0.8	3	3	0.15	0.15	0.15	0.15	0.5	0.5
4	1+190	1+210	1.1	0.8	3	3	0.15	0.15	0.15	0.15	0.5	0.5
5	1+370	1+390	1.1	0.8	3	3	0.15	0.15	0.15	0.15	0.5	0.5
6	1+590	1+822	1.1	0.8	3	3	0.15	0.15	0.15	0.15	0.5	0.5



**Fill** 0.50m  
**Footpath** 1.90m  
**Footpath** 3.00m  
**Drain** 1.10m  
**Tick Drain** 0.15m  
**Tick Drain** 0.15m  
**Drain** 0.80m  
**Footpath** 2.20m  
**Footpath** 3.00m  
**Fill** 0.50m  
**Total Formation Width** 15.10m

Government of Nepal  
 Mechnagar Municipality  
 Office of Municipal Executive  
 Nepal Urban Governance and Infrastructure Project (NUGIP)  
 Koshi Province  
 Jhapa, Nepal

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 DRAWN BY :  
 CHECKED BY :  
 APPROVED BY :

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Typical Cross Section  
 Typical Section - 4

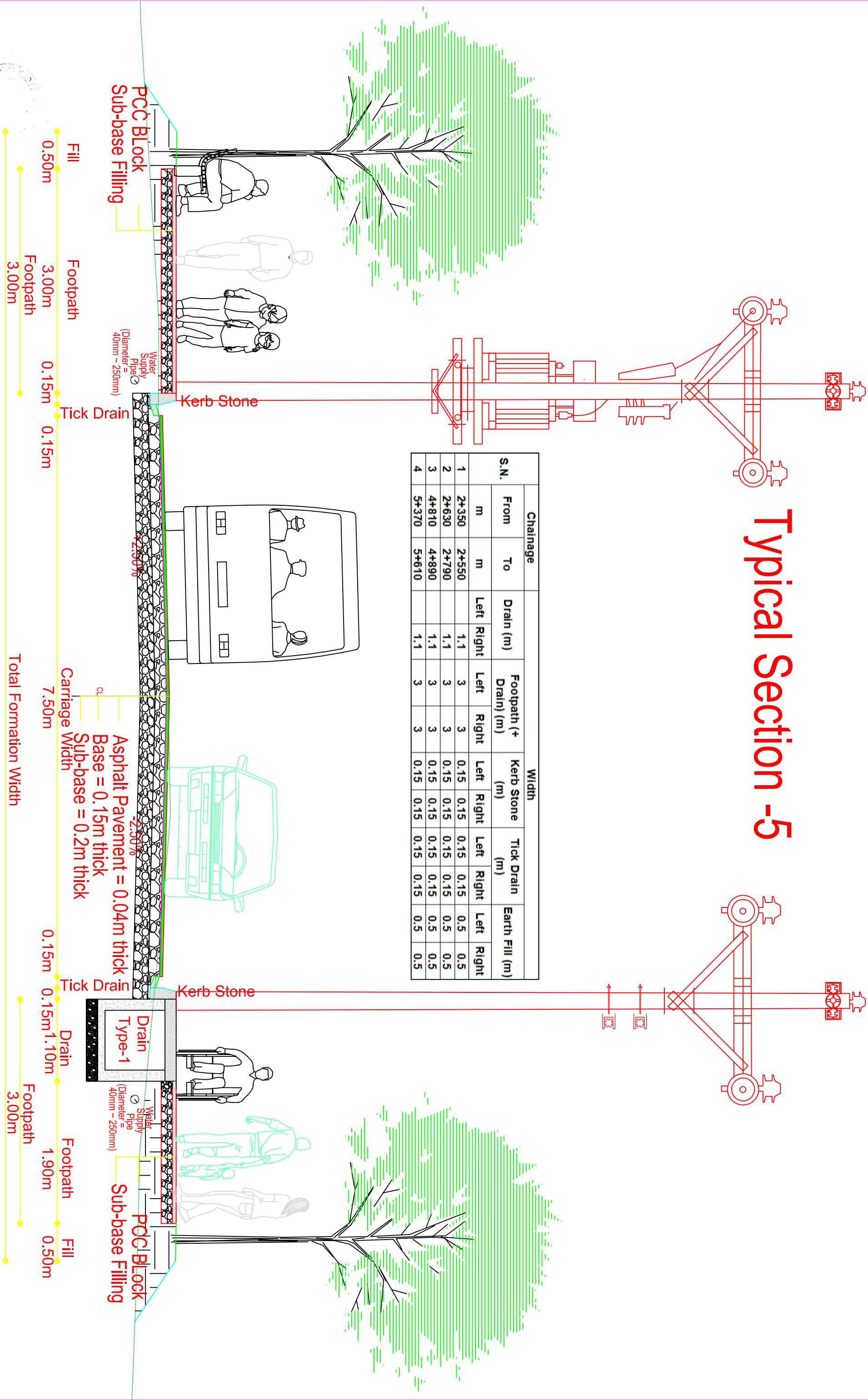
DATE:  
 DRG NO : 6  
 SHEET NO : 6/3

CONSUL TANT:  
 CZTech - GIDAN JV  
 Sub-Project: Suryodaya Marga



# Typical Section -5

S.N.	Chainage		Width							
	From	To	Drain (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
1	2+350	2+550	Left	Right	Left	Right	Left	Right	Left	Right
2	2+630	2+790	1.1	1.1	0.15	0.15	0.15	0.15	0.5	0.5
3	4+810	4+890	1.1	1.1	0.15	0.15	0.15	0.15	0.5	0.5
4	5+370	5+610	1.1	1.1	0.15	0.15	0.15	0.15	0.5	0.5



Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project (NUGIP)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
CZTech. - GIDAN JV

Sub-Project: Suryodaya Marga

DESIGNED BY :  
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APPROVED BY :

SCALE  
1:15 SCALE

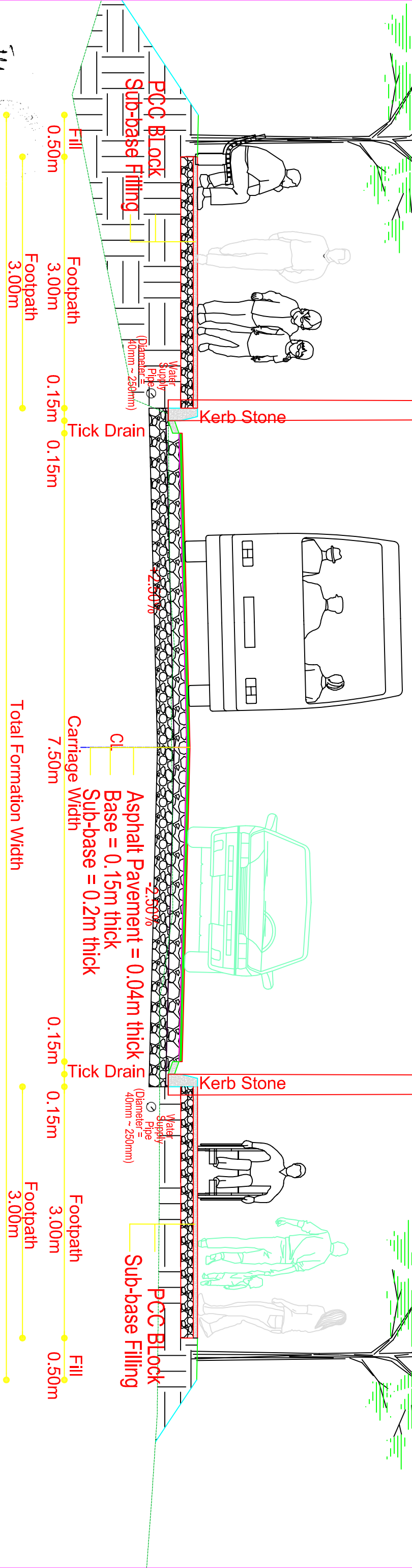
Typical Cross Section  
Typical Section - 5

DATE:  
DRG NO : 7  
SHEET NO : 7/13

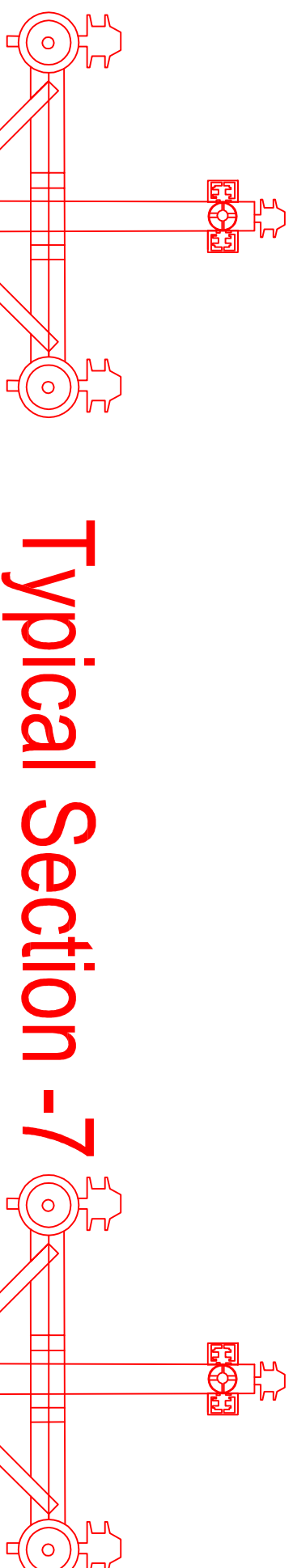
# Typical Section -6



S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	2+810	2+910			3	3	0.15	0.15	0.15	0.15	0.5	0.5
2	3+250	3+310			3	3	0.15	0.15	0.15	0.15	0.5	0.5
3	3+330	3+470			3	3	0.15	0.15	0.15	0.15	0.5	0.5
4	4+070	4+810			3	3	0.15	0.15	0.15	0.15	0.5	0.5

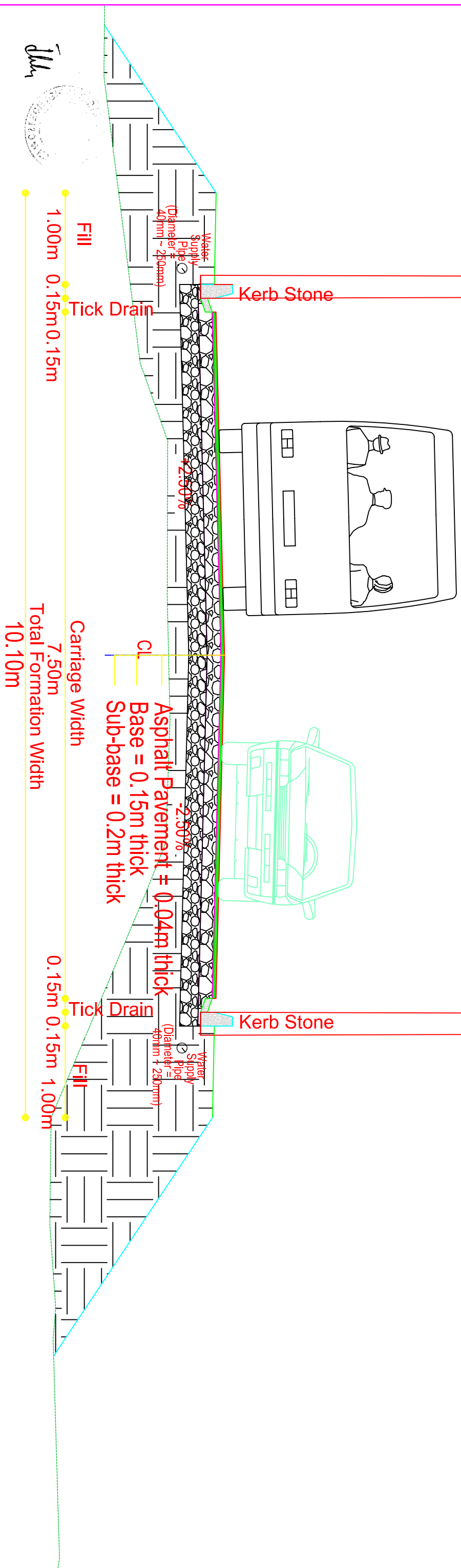


Government of Nepal Mechnagar Municipality Office of Municipal Executive Nepal Urban Governance and Infrastructure Project (NUGIP) Koshi Province Jhapa, Nepal	CONSULTANT: CZTech - GIDAN JV	Sub-Project: Suryodaya Marga	DESIGNED BY : DRAWN BY : CHECKED BY : APPROVED BY :	SCALE 	DATE: DRG NO : 8 SHEET NO : 8/13
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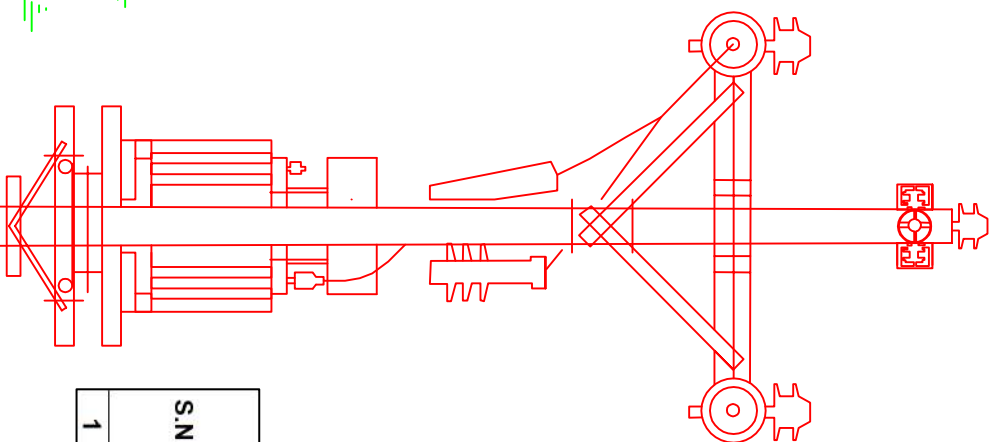
# Typical Section - 7

S.N.	Chainage		Width							
	From	To	Drain (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
1	5+955	6+150	Left	Right	Left	Right	Left	Right	Left	Right
2	6+190	6+860			0.15	0.15	0.15	0.15	1	1
3	6+863	6+970			0.15	0.15	0.15	0.15	1	1
4	7+070	7+130			0.15	0.15	0.15	0.15	1	1
5	7+175	7+250			0.15	0.15	0.15	0.15	1	1

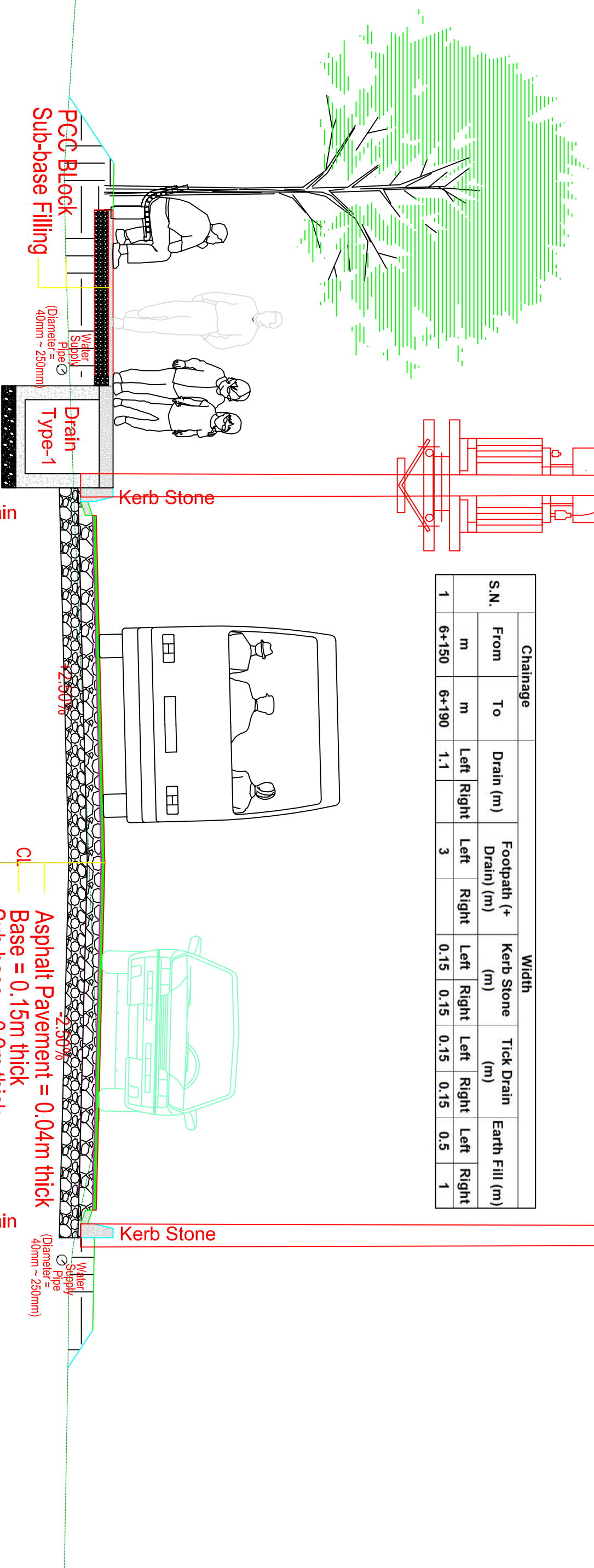
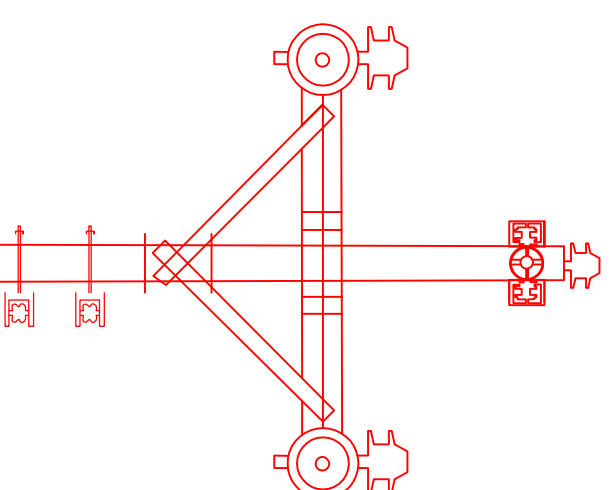


<p>Government of Nepal Mechinagar Municipality Office of Municipal Executive Nepal Urban Governance and Infrastructure Project (NUGIP) Koshi Province Jhapa, Nepal</p>	<p>CONSULTANT: C2Tech - GIDAN JV</p>	<p>Sub-Project: Suryodaya Marga</p>
<p>DESIGNED BY : DRAWN BY : CHECKED BY : APPROVED BY :</p>	<p>SCALE 1:10SCALE</p>	<p>Typical Cross Section Typical Section - 7</p>
		<p>DATE: DRG NO : 9 SHEET NO : 9/13</p>

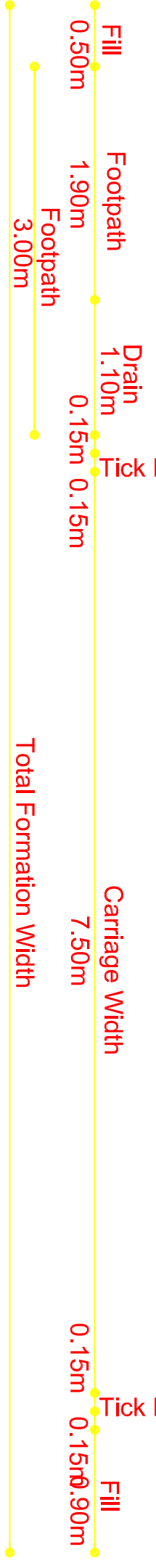
# Typical Section - 8



S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	6+150	6+190	1.1		3		0.15	0.15	0.15	0.15	0.5	1



**Asphalt Pavement = 0.04m thick**  
**Base = 0.15m thick**  
**Sub-base = 0.2m thick**



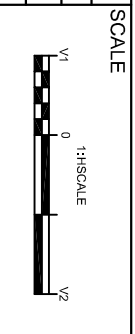
Government of Nepal  
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 Koshi Province  
 Jhapa, Nepal

Government of Nepal  
 Mechnagar Municipality  
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 Koshi Province  
 Jhapa, Nepal

CONSULTANT:  
 CZTech - GIDAN JV

Sub-Project: Suryodaya Marga

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 DRAWN BY :  
 CHECKED BY :  
 APPROVED BY :

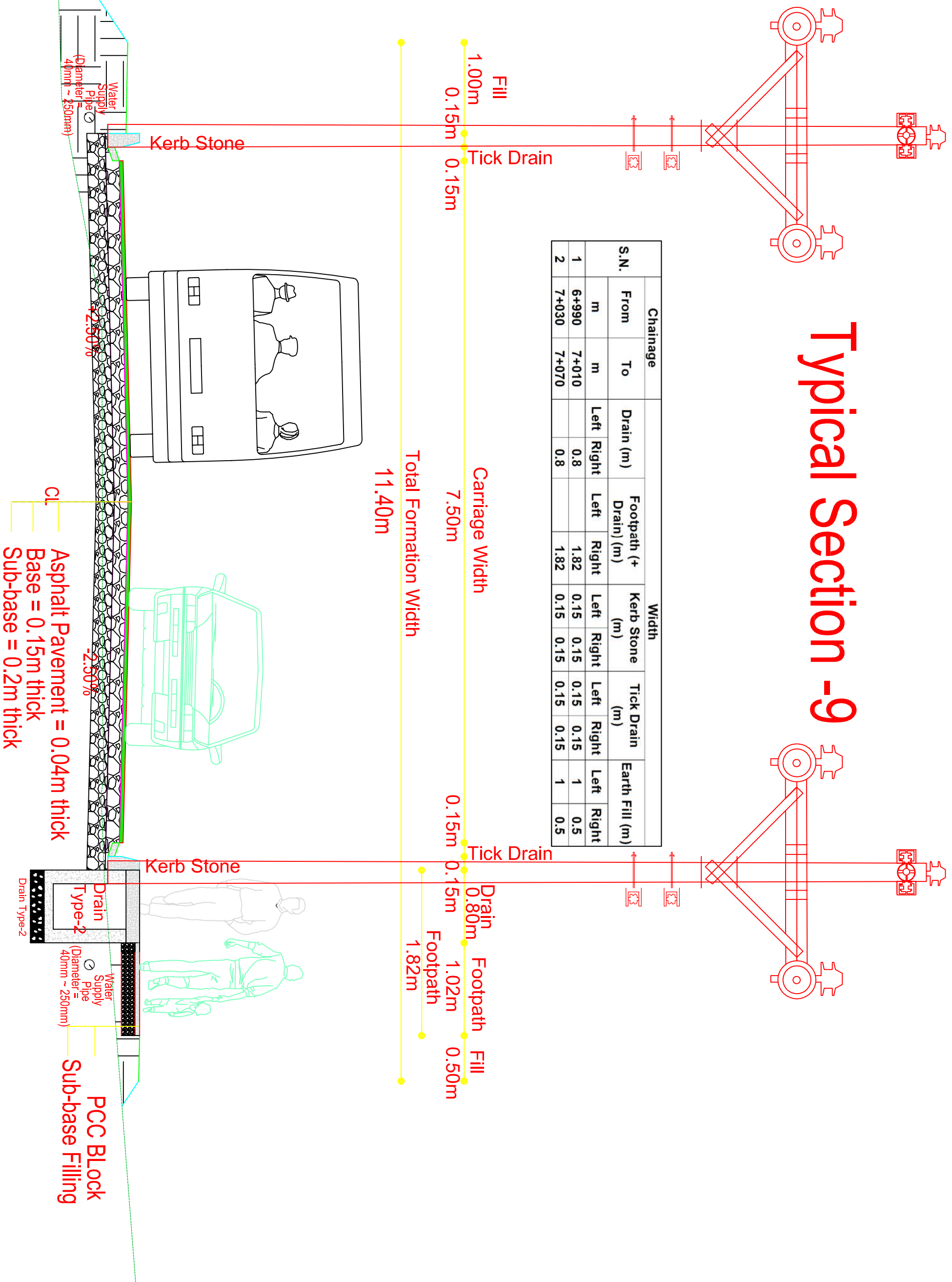


**Typical Cross Section**  
**Typical Section - 8**

DATE:  
 DRG NO : 10  
 SHEET NO : 10/13



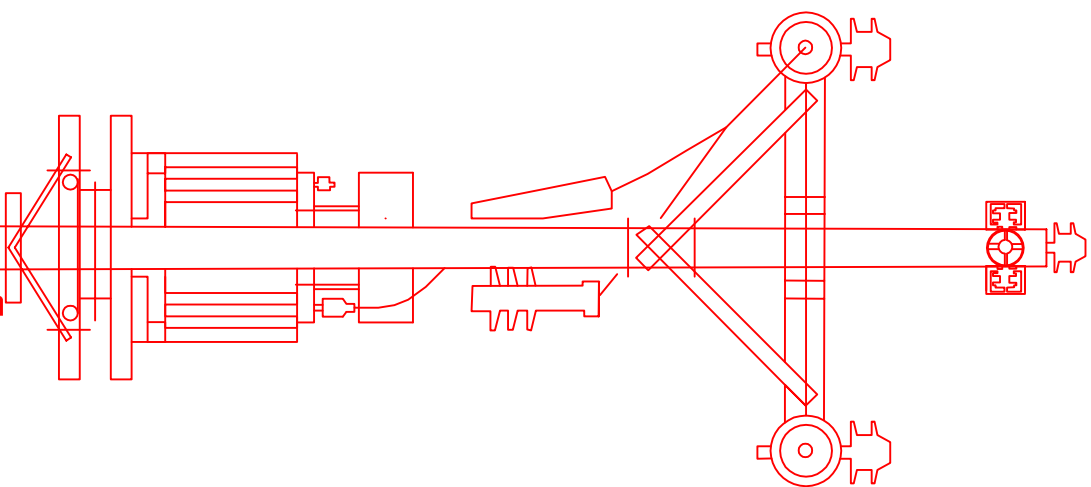
# Typical Section -9



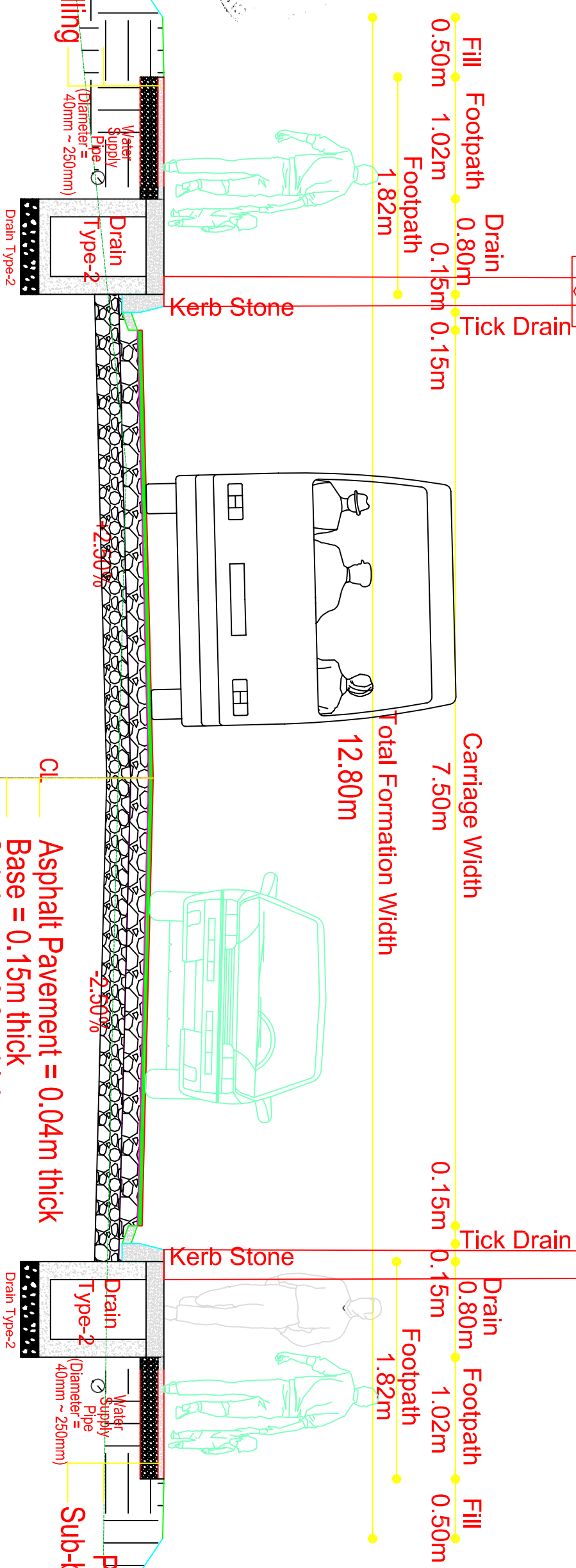
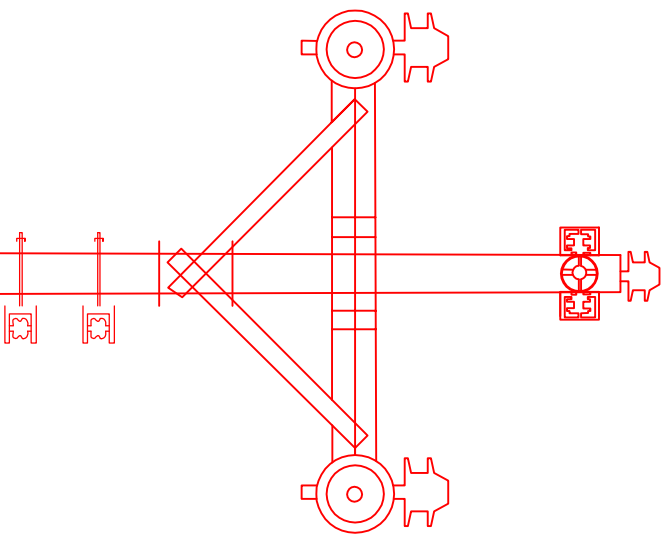
S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	6+990	7+010	0.8	0.8	1.82	1.82	0.15	0.15	0.15	0.15	1	0.5
2	7+030	7+070	0.8	0.8	1.82	1.82	0.15	0.15	0.15	0.15	1	0.5

Asphalt Pavement = 0.04m thick  
 Base = 0.15m thick  
 Sub-base = 0.2m thick

# Typical Section - 10

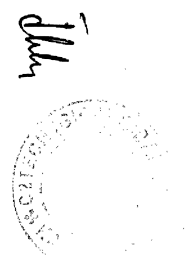


S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	7+010	7+030	0.8	0.8	1.82	1.82	0.15	0.15	0.15	0.15	0.5	0.5
2	7+250	8+480	0.8	0.8	1.82	1.82	0.15	0.15	0.15	0.15	0.5	0.5



Carriage Width  
7.50m  
Total Formation Width  
12.80m

Asphalt Pavement = 0.04m thick  
Base = 0.15m thick  
Sub-base = 0.2m thick



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Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project (NUGIP)  
Koshi Province  
Jhapa, Nepal

CONSULTANT:  
CZTech - GIDAN JV

Sub-Project: Suryodaya Marga

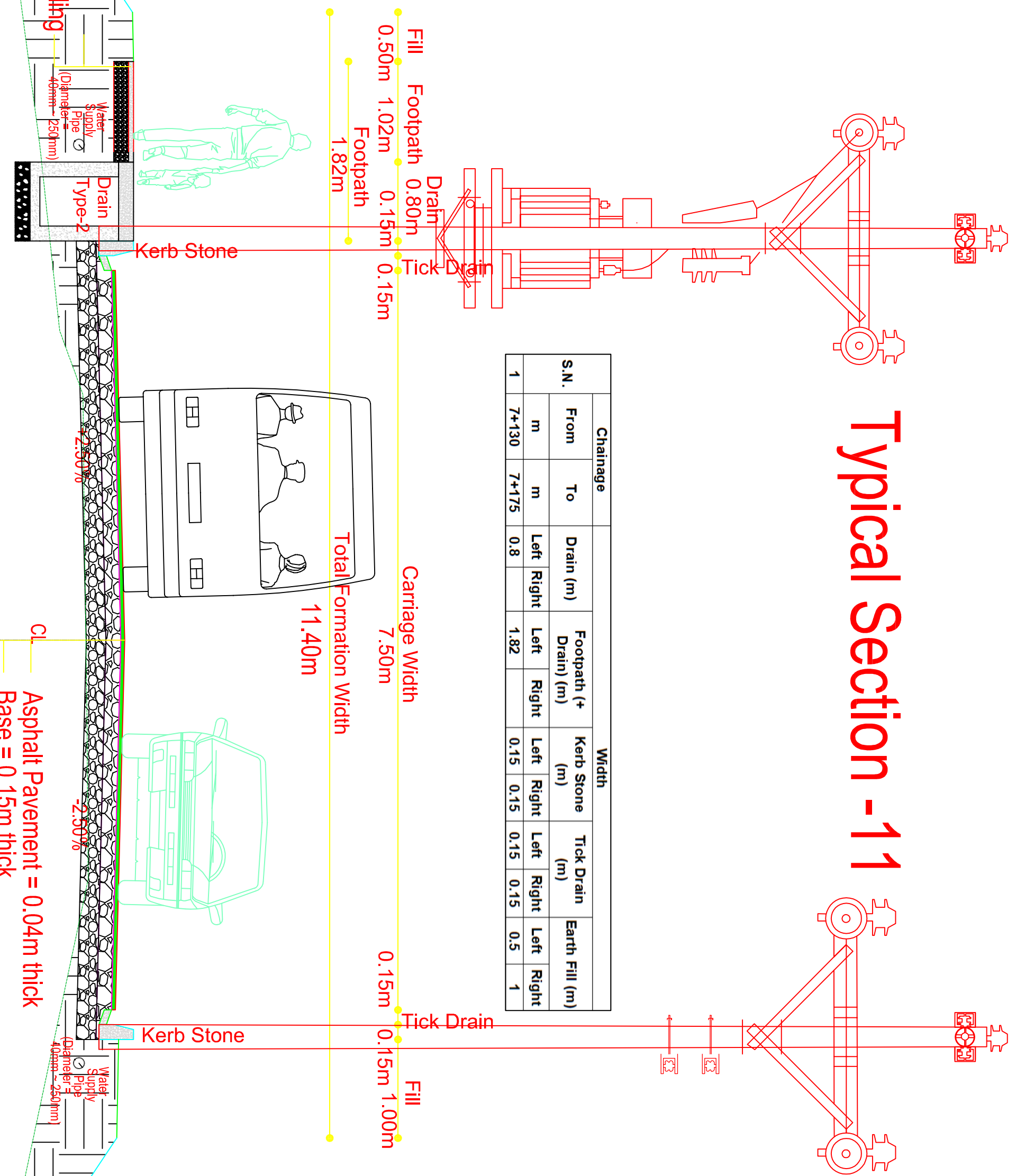
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DRAWN BY :  
CHECKED BY :  
APPROVED BY :

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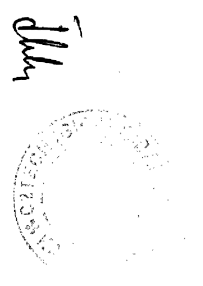
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Typical Section - 10

DATE:  
DRG NO : 12  
SHEET NO : 12/13

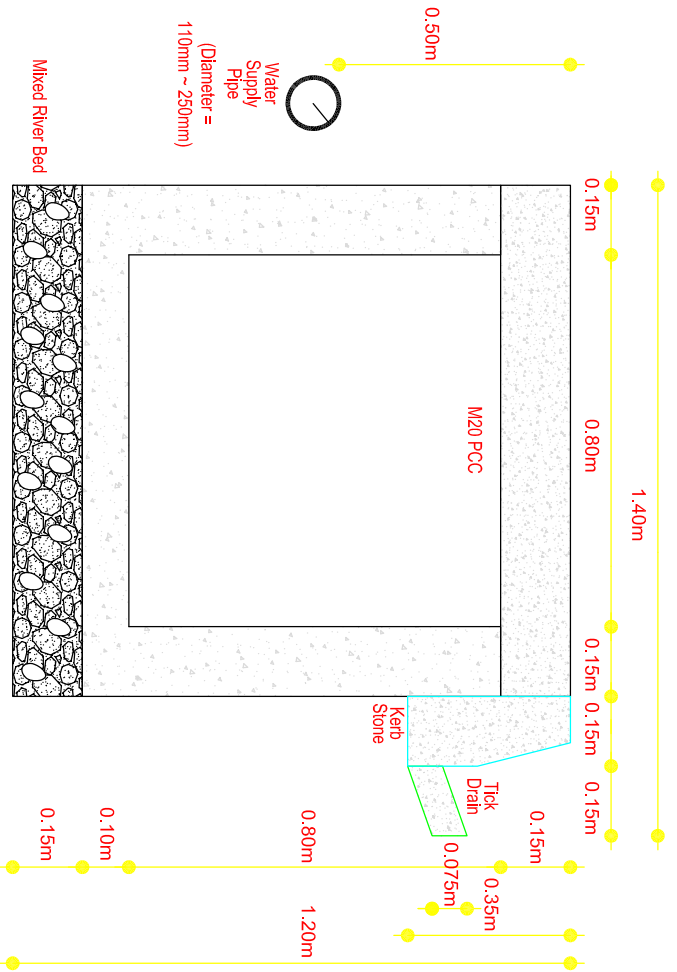
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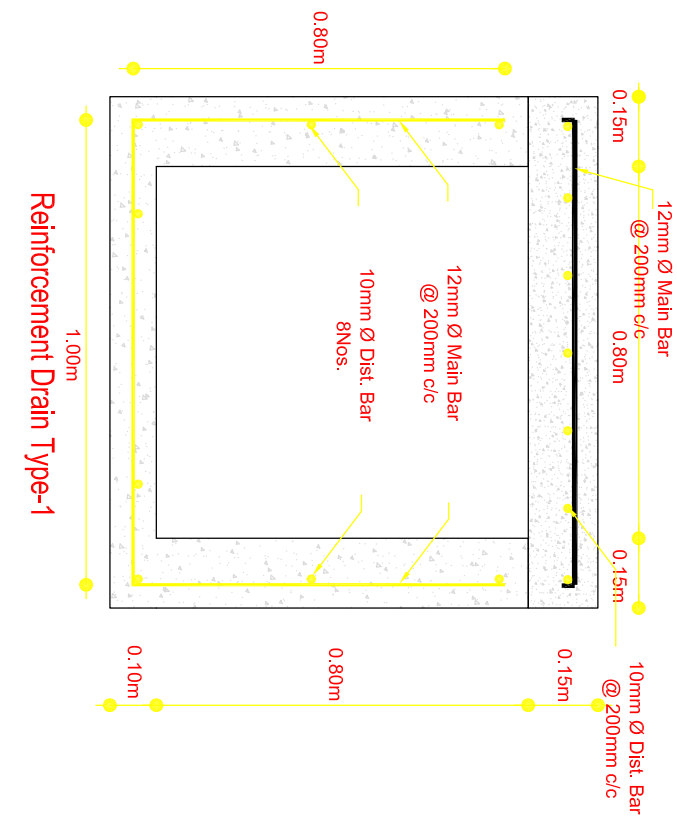
S.N.	Chainage		Drain (m)		Footpath (+ Drain) (m)		Kerb Stone (m)		Tick Drain (m)		Earth Fill (m)	
	From	To	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
1	7+130	7+175	0.8		1.82		0.15	0.15	0.15	0.15	0.5	1



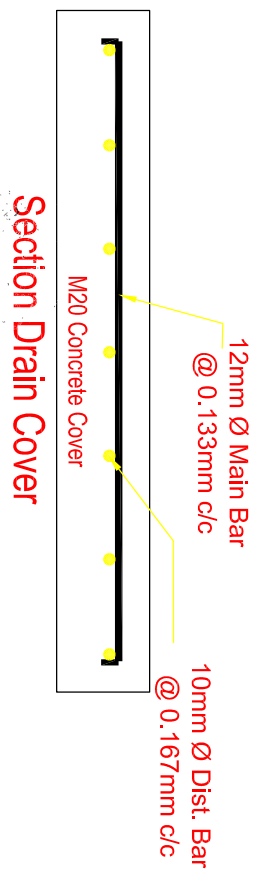




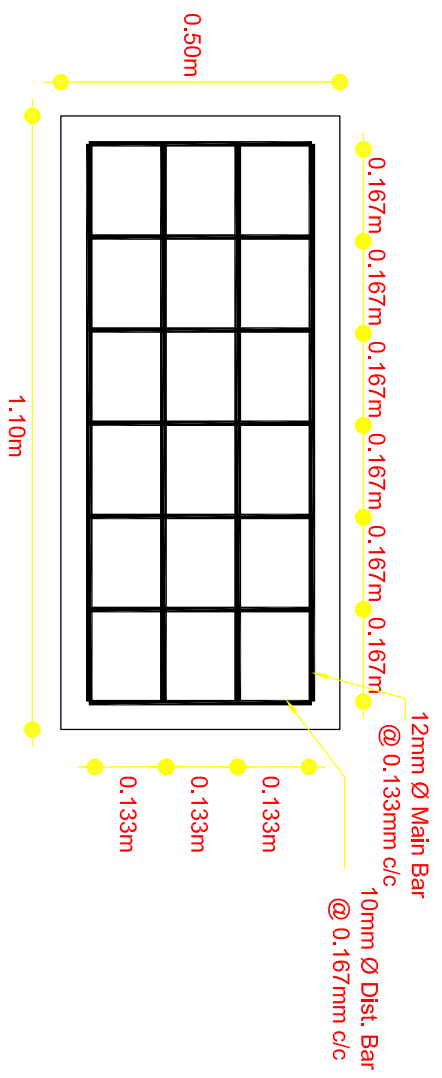
## Plan Drain Type-1



## Reinforcement Drain Type-1



## Section Drain Cover



## Plan Drain Cover

*Signature*

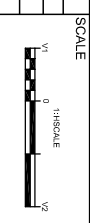


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 Office of Municipal Executive  
 Nepal Urban Governance and Infrastructure Project (NUGIP)  
 Jhapa, Nepal

CONSULTANT:  
 CZTech - GIDANN JV

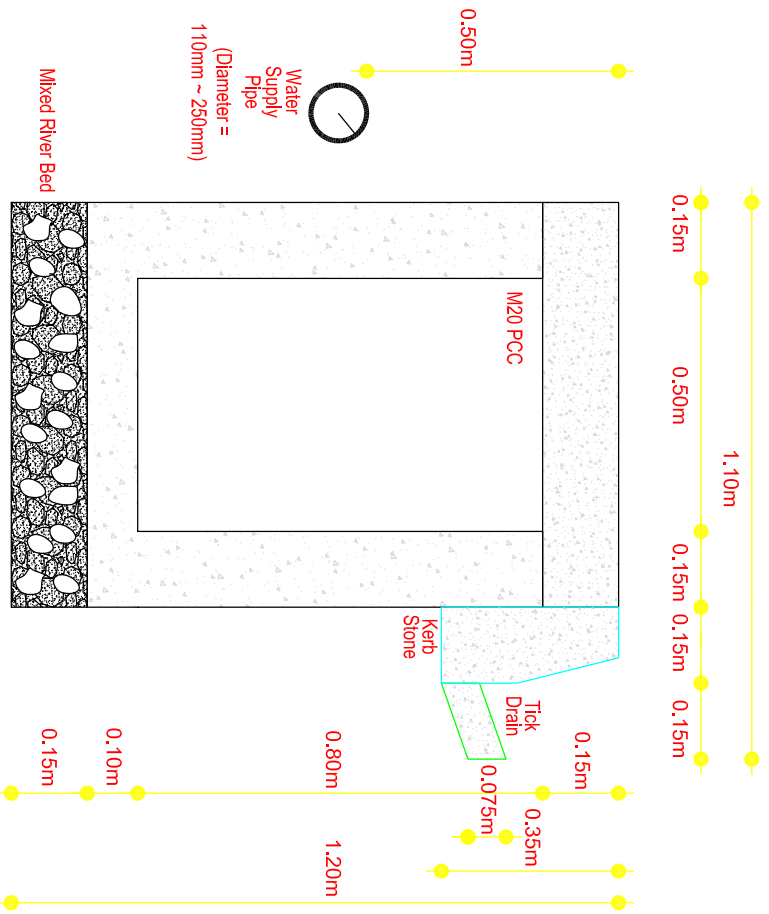
Sub-Project: All

DESIGNED BY :  
 DRAWN BY :  
 CHECKED BY :  
 APPROVED BY :

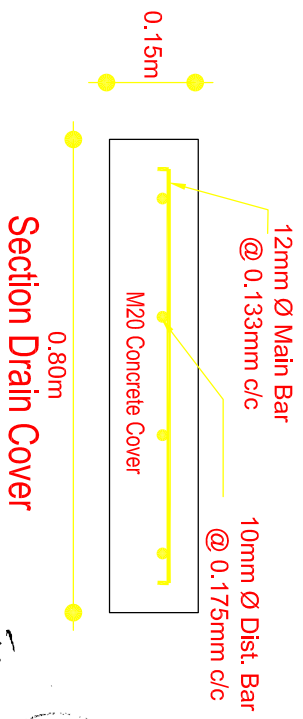


Typical Drawing  
 Drain Type - 1 and Drain Cover

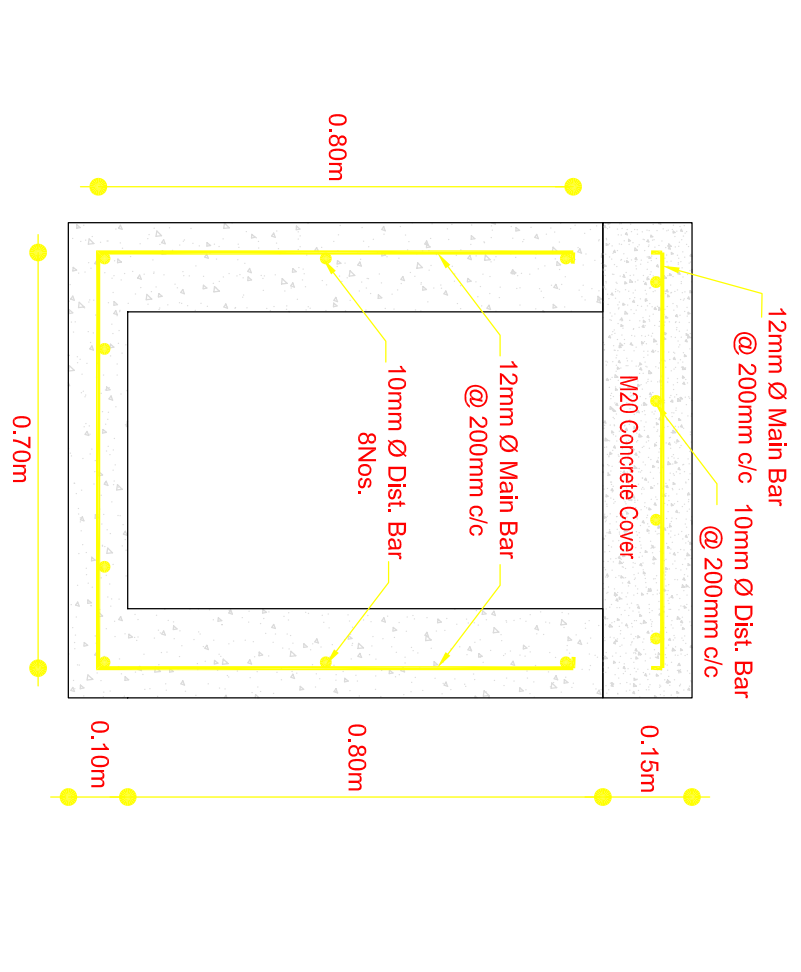
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 Dwg No : 1  
 SHEET NO : 1/5



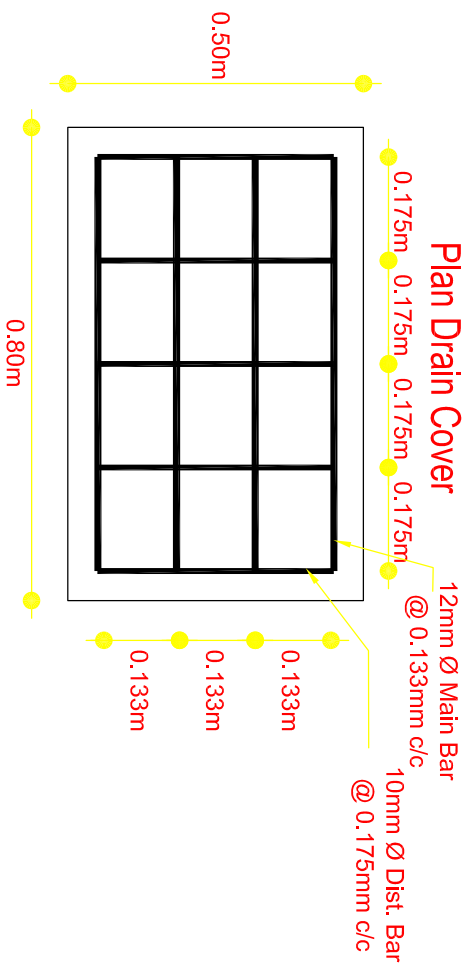
## Plan Drain Type-2



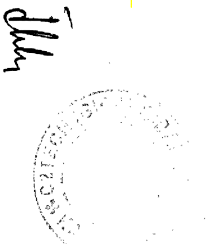
## Section Drain Cover



## Reinforcement Drain Type-2



## Plan Drain Cover



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CONSULTANT:  
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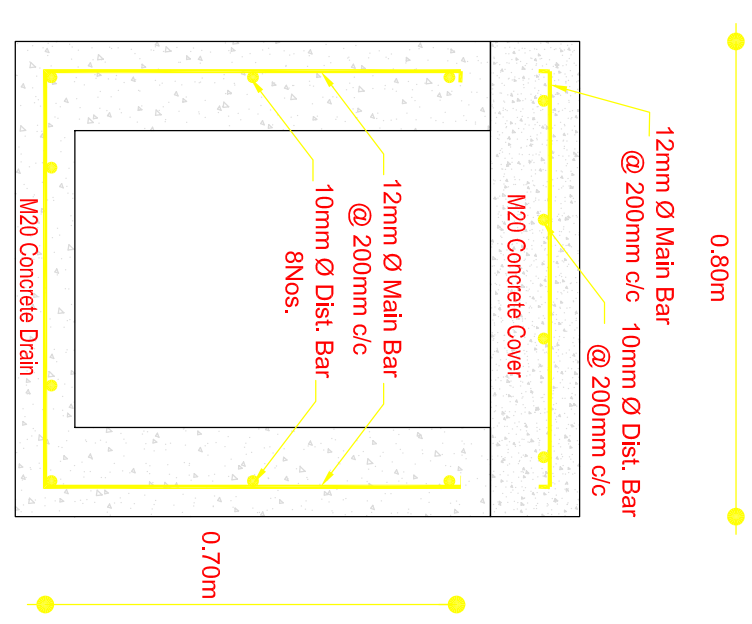
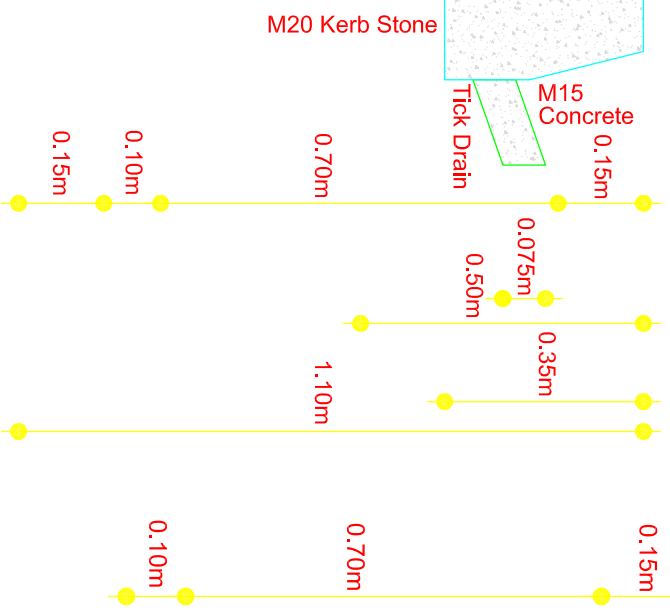
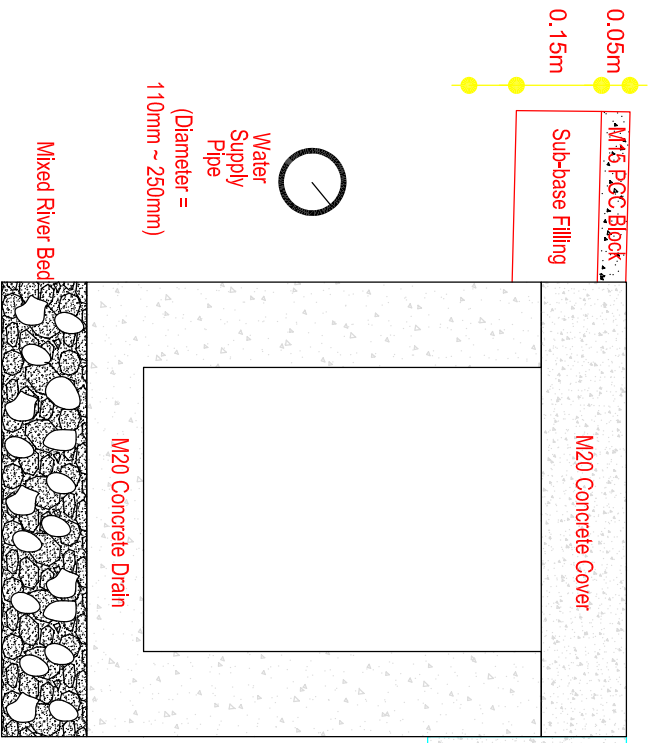
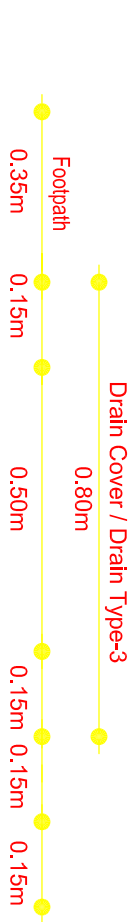
Sub-Project: All

DESIGNED BY :  
DRAWN BY :  
CHECKED BY :  
APPROVED BY :

SCALE  
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1:200  
1:500  
1:1000

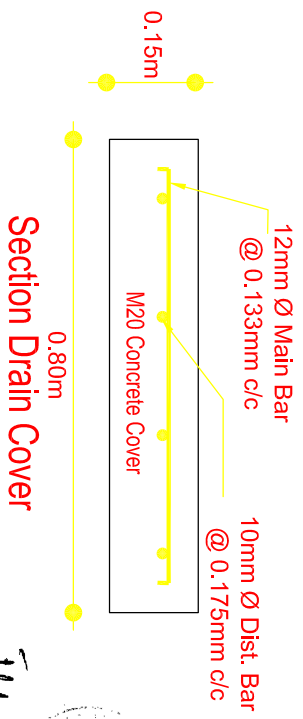
Typical Drawing  
Drain Type - 2 and Drain Cover

DATE:  
DNG NO.: 2  
SHEET NO.: 2/5

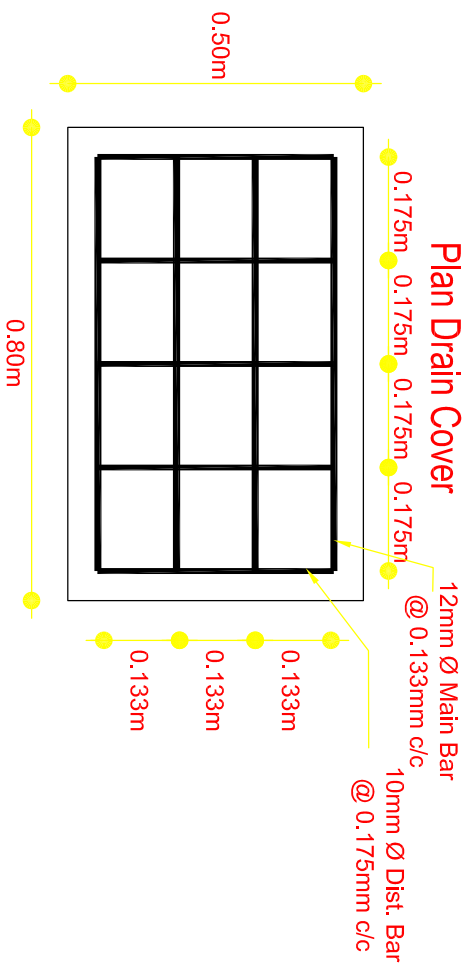


**Plan Drain Type-3**

**Reinforcement Drain Type-3**



**Section Drain Cover**



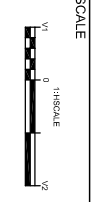
**Typical Drawing**

Government of Nepal  
Mechinagar Municipality  
Office of Municipal Executive  
Nepal Urban Governance and Infrastructure Project (NUGIP)  
Jhapa, Nepal

CONSULTANT:  
C2Tech - GIDANN JV

Sub-Project: All

DESIGNED BY :  
DRAWN BY :  
CHECKED BY :  
APPROVED BY :



Drain Type - 3 and Drain Cover

DATE:  
Dwg NO. : 3  
SHEET NO. : 3/5

# SECTION-VI

## Bill of Quantities

Notes for Unit Rate Contracts :

### Objectives

The objectives of the Bill of Quantities are

- (a) to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- (b) when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

### Content

The Bill of Quantities should be divided generally into the following sections:

- (a) Preamble;
- (b) Work Items (grouped into parts);
- (c) Day works Schedule;
- d) Provisional Sums; and
- (d) Summary.

### Preamble

The Preamble should indicate the inclusiveness of the unit prices, and should state the methods of measurement which have been adopted in the preparation of the Bill of Quantities and which are to be used for the measurement of any part of the works.

### Work Items

The items in the Bill of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, or phasing of the Works, or considerations of cost. General items common to all parts of the works may be grouped as a separate section in the Bill of Quantities.

### Day work Schedule

A Day work Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Employer of the realism of rates quoted by the Bidders, the Day work Schedule should normally comprise the following:

- (a) A list of the various classes of labor, materials, and Constructional Plant for which basic day work rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a day work basis.
- (b) Nominal quantities for each item of Day work, to be priced by each Bidder at Day work rates as bid. The rate to be entered by the Bidder against each basic Day work item should include the Contractor's profit, overheads, supervision, and other charges.

### Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the Contract Data should state the manner in which they will be used, and under whose authority (usually the Project Manager's).

### Summary

The Summary should contain a tabulation of the separate parts of the Bill of Quantities carried forward, with provisional sums for Day work, for physical (quantity) contingencies, and for price contingencies (upward price adjustment) where applicable.

These Notes for Preparing Specifications are intended only as information for the Employer or the person drafting the Bidding documents. They should not be included in the final documents.

# Bill of Quantities

1 Provisional Sum						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Unit Rate(NPR)	Amount(NPR)	
1	Provide for additional tests for Material and works as required and instructed by Engineer's.	PS	1.0	500000.0	500,000.00	
2	Relocation/Re-erection/Rehabilitation, supply, deliver, new construction & erection of existing infrastructures (i.e. Irrigation Canal, Electric Pole, water supply pipes, Tap Stand, Foot staircase, Foot trail etc) as per instruction of Engineer and related specifications.	PS	1.0	5350000.0	5,350,000.00	
3	Social and Environmental complainaces: Social and Environmental complainaces: Public awareness and public participation: Awareness on Physical and Mental Abuse, Railing, Sexual violence/Rape, Women trafficking and Unchained, Training on Child marriage, Environment conservation and rodeside tree plantation, Activities to mitigate SEA.SH related risks, Orientation on Code of conduct for affected local people, girls in school, project staffs, staffs of contractors/ subcontractors to manage GBV/SEA/SH risks, Stakeholder consultation including dissemination of project information, maintaining a functional GRM at project level to adress timely the project related grievances of communities and other stakeholders and site monitoring as instruction of Engineer (SS/SP-111)	PS	1.0	1750000.0	1,750,000.00	
2 Construction work						
2.1 Road Construction Work						
2.1.1 Road Work General Item						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Provide Contractor All Risk (CAR): Insurance premium for the works damages for contract work for all risk including Riot, Strike, Damage, Malicious Damage, Terrorism, Loss or Damage of Material or Equipment or Property or Plant, Third Party Insurance, Personal Injury or Death as specified in GCC for contract work for project period including DLP.	LS	1.0			
2	Provide, operate and maintain Quality Control Laboratory including equipment, accessories and consumables for both field testing facilities and off-site test with manpower as per specification and instruction of Engineer all complete (SS/SP-504,511,503)	Months	15.0			
3	Supply, Operate and maintain the work for operation and maintenance of traffic diversion and management as per Instruction of Engineer and specification	LS	1.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
4	Supplying and erecting 1.2m.x 1.8 m. size Project sign board in place including 50mm dia. Steel tube, 2mm. thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. all complete as per instruction of Engineer and specification	Nos.	2.0			
5	Provide Occupational Health and Safety Equipment, First aid tools and medicine for the Engineers and Labors/supervisors/ staff of the Contractor as per Instruction of Engineer	Months	15.0			
6	Provide and establish the labor camps & adequate drinking water facility and toilets for labors and demolish camp site and re-instate the ground as per specifications and as instructed by Engineer.	LS	1.0			

#### 2.1.2 Site Clearance

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing for Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable Material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness(SP-201) as per instruction of Engineer and specification	Sqm	25140.0			
2	Dismantling of existing structures of Random Rubble Masonry with Cement Mortar (i.e. stone masonry structures, brick masonry structures, concrete structures, reinforcement structures, gabion structures, different diameter of pipe and types, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification.	Cum.	90.0			
3	Dismantling of existing structures of Masonry with Cement Mortar (i.e. stone masonry structures and brick masonry structures, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification.	Cum.	37.5			
4	Dismantling of existing structures Cement Concrete Grade M-15 and M-20 (i.e. concrete structures, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification	Cum.	15.0			



Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
5	Providing and Dismantling of existing structures of gabion structures with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification	Cum.	40.0			
6	Dismantling of existing structures of Water Supply Pipe (up to 600mm dia. (i.e. different diameter of pipe and types, etc.) with disposal, stacking and transport up to 1km all complete as per instruction of Engineer and specification	Rm	6400.0			

#### 2.1.3 Earthworks

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing of Earth work excavation for Back cutting / Grade cutting in all type of soil and rock including disposal upto 100 m and lift upto 1.5 m etc. all complete as per instruction of Engineer and specification.	Cum.	17687.37			
2	Providing of Structure foundation excavation in all types of soil/rock by mechanical means as per drawing and technical specification, including removal of stumps and other deleterious matter, with all lifts and lead as drawing and instruction of engineer.	Cum.	709.72			
3	Providing, laying, spreading and compacting of filling/backfilling works with material deposited including transport from roadway cutting as per Drawing & Technical Specifications and instruction of Engineer	Cum.	17687.37			
4	Providing, transporting, laying, spreading and compacting of filling/backfilling works with borrow material as per Drawing & Technical Specifications and instruction of Engineer	Cum.	27564.87			
5	Providing, transporting, laying, spreading and compacting for backfilling works for the structures with approved suitable material all complete as per specification and engineer's Instruction	Cum.	3034.36			

#### 2.1.4 Pavement Works

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing, Loosening, leveling and Compacting for the sub-grade work on existing ground conditions to facilitate placement of first layer of sub-base, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve dry density as per Drawing & Technical Specifications and instruction of Engineer	Sqm	72079.4			
2	Providing, transporting, laying, spreading, leveling, and compacting of granular sub-base to achieve the desired density, all complete as per Drawing & Technical Specifications and instruction of Engineer.	Cum.	14302.88			
3	Providing, transporting, laying, spreading, leveling and compacting of base work (Crusher Run Macadam) as per Drawing & Technical Specifications and instruction of Engineer	Cum.	10727.16			
4	Providing, transporting, laying and spreading of prime coat (MC 30 / 70 Hot Bitumen ( including cutter)) including cleaning of prime coat surface and spraying by mechanical means as per Technical Specification and instruction of Engineer	litre	65445.4			
5	Providing, transporting, laying and spreading of tack coat including cleaning of tack coat surface and spraying by mechanical means as per Technical Specification and instruction of Engineer	litre	45811.78			
6	Providing, transporting, laying, spreading by mechanical means in required thickness and compacting of Asphalt concrete work as per Drawing & Technical Specifications and instruction of Engineer	Cum.	2640.38			

#### 2.1.5 Structure Works

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing, laying, transporting, compacting and leveling of Dry Stone Soling for structures foundation all complete as per specification and directed by the Engineer	cum.	147.6			
2	Providing, laying, transporting, compacting and leveling of Granular Material (Mixed river bed material) for structures foundation all complete as per specification and directed by the Engineer	Cum.	1786.6			
3	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M10/40 all complete as per specification and directed by the Engineer	Cum.	94.89			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
4	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M15/40 all complete as per specification and directed by the Engineer	Cum.	225.26			
5	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M20/20 all complete as per specification and directed by the Engineer	Cum.	4728.02			
6	Providing, laying, transporting, compacting, vibrating (as per specification) and leveling of concrete work in grade M25/20 all complete as per specification and directed by the Engineer	Cum.	670.19			
7	Providing and transporting of reinforcement work including cutting, bending, binding, fixing in position etc. all complete as per drawing & specification and instruction of Engineer	MT	383.23			
8	Providing, transporting and laying of Stone Masonry work in 1:4 cement mortar including HDPE Pipe Dia 100mm, in weep whole as where applicable all complete as per Drawing & Technical Specifications and instruction of Engineer.	Cum.	166.95			
9	Providing and placing concrete with 60% M 15/40 concrete and 40% boulders/stones as per specification, using concrete mixer and vibrator. Including formworks	Cum.	225.0			
10	Supplying, transporting, providing of Machine Made Gabion boxes / mattresses with diaphragms including rolling, cutting weaving and stone filling all complete as per specification. Salvage wire 3.9mm, Mesh Wire 3.0mm and Hexagonal Meshsize 100x120 mm all complete as per Engineers direction	Cum.	3198.75			
11	Providing, supplying and laying of a geotextile work as per Drawing & Technical Specifications and instruction of Engineer	Sqm	1264.2			
12	Providing, transporting for Carry out backfilling works behind the structures with approved suitable material including spreading in layers, watering and compaction complete as per specification and engineer's Instruction;	Cum.	137.33			
13	Providing, Supplying, transporting, and laying of 600 mm Dia. NP3 concrete pipe including fixing, jointing with cement mortar 1:2 ratio as per drawing & specification and instruction of Engineer	Rm	62.5			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
14	Providing, Supplying, transporting, and laying of 900mm Dia. NP3 concrete pipe including fixing, jointing with cement mortar 1:2 ratio as per drawing & specification and instruction of Engineer.	Rm	62.5			
15	Providing, Supplying, transporting, and laying of 1200mm Dia. NP3 concrete pipe including fixing, jointing with cement mortar 1:2 ratio as per drawing & specification and instruction of Engineer	Rm	25.0			
16	Providing, Supplying, transporting, and laying of water supply pipe (HDPE_6kgf_90mm Dia.) for the water network and drainage network including fixing, jointing with leveling as per drawing & WSS technical specification and instruction of Engineer	Rm	4752.9			
17	Providing, Supplying, transporting, and laying of water supply pipe (HDPE_10kgf_50mm Dia.) for the water network and drainage network including fixing, jointing with leveling as per drawing & WSS technical specification and instruction of Engineer	Rm	11061.6			

#### 2.1.6 Environmental Mitigation (Including Bio-engineering)

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing, Supplying and Planting rooted grass slips on slopes <45° including preparation of slips on site. Operation includes digging planting hole to a max of 5 cm depth with metal rod or hardwood peg, depending on nature of soil. The planting drills should be spaced 10 cm apart. As per specification and instruction of Engineer	Sq.m	2100.0			
2	Providing, Suppling and Laying fo live fascines, using live 'hardwood cuttings of selected species(eg assuro, namdi phul, simali) of minium 1m length placed in bundles to give 4 running meters of metre of fascine, including back filling cutting per 'of trench and careful compaction. As per specification and instruction of Engineer	RM	450.0			
3	Providing, Supplying, preparation and planting of live pegs selected species (e.g. assuro, namdi phul, simali)of minimum length to 0.5 m depth into soft debris. Pegs spaced at 5- centers within rows, and interwoven with vegetation. As per specification and instruction of Engineer	Rm	425.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
4	Providing, Seedlings, planting, transportation, watering and all complete of plantation of tree including pit distance determination (1600 pits per hectare), pit digging (1600 pits per hectare (pit size 45 cm x 30 cm x 30 cm) pit distance 2.5 meter x 2.5 meter center to center), transportation of plant from source to site, transportation by manually within the site area, organic fertilizer and as per drawings & specification and instruction of Engineer.	No.	594.0			
5	Providing, Supplying and sprinkling as per specification and instruction of Engineer	Hr.	55.52			

## 2.1.7 Road Furniture and Traffic Safety Measures

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing, Supplying and erecting traffic sign in place including 50cm dia. Steel tube, 2mm, thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. complete as per specification and instruction of Engineer 60cm. Dia. Circular, (60cm. equilateral triangle and 60cm. x 45cm. rectangular shaped sign (single post))	No	77.0			
2	Providing, Supplying and erecting traffic sign in place including 50cm dia. Steel tube, 2mm, thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. complete as per specification and instruction of Engineer 60cm. Dia. Circular, (1.2m. x 0.75m. Size bigger traffic sign with back support and two or more post)	No	4.0			
3	Providing, Supplying and fixing in place R.C.C. delineator and guard post including excavation, back filling, painting and erection etc. all complete as per drawing & specification and instruction of Engineer	No	100.0			
4	Providing, Supplying for Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface, On smooth surface (similar to Asphalt concrete and rigid pavement), and laying of hot applied thermoplastic compound at least 2 mm thick including reflectorizing glass beads as per DOR Traffic sign manual/ Specifications . The finished surface to be level, uniform and free from streaks and holes. As per instruction of Engineer	Sqm	4252.55			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
5	Providing, supplying and placing R.C. C kilometer post including excavation, back filling, painting and writing etc. all complete as per specification and instruction of Engineer (Placed at each km)	No	7.0			
6	Providing, supplying and placing R.C. C kilometer post including excavation, back filling, painting and writing etc. all complete as per specification and instruction of Engineer (Placed at each 5 km)	No	2.0			
7	Providing, transporting and laying M 20/20 Precast or Cast in situ concrete in kerbs with 12mm thick 1:3 cement sand mortar bedding and joints including foundation excavation levelling etc. but excluding foundation concrete or sand gravel materials. As per drawings, specification and instruction of Engineer	Rm	16290.0			
8	Providing, producing, transportation, and laying of pre-cast (or cast in site) concrete block for the footpath in M15 concrete of 75mm thick as per specification and instruction of Engineer	Cum.	1517.18			

#### 2.1.8 Dayworks

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Skilled labour	Day	30.0			
2	Unskilled labour	Day	120.0			
3	JCB backhoe/Loader	Hr	10.0			
4	Tractor	Hr	10.0			
5	Tipper/Truck 4.6 Cu.m capacity	Hr	10.0			
6	Gabion Works	Cu.m	100.0			
7	Hume Pipe NP3 600mm	Rm	15.0			
8	Hume Pipe NP3 900mm	Rm	15.0			
9	Stone	Cu.m	4.0			
10	Sand	Cu.m	2.0			



Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
11	Cement	Tones	0.5			
Total of Procurement Items						
<b>Total Item Price</b>						
<b>VAT</b>						
<b>Grand Total</b>						