



KAKINADA SMART CITY CORPORATION LIMITED

National Competitive Bidding

REQUEST FOR PROPOSAL (RFP)

RFP No. KSCCL/Pratap Nagar Bridge/2017/1 Country: INDIA

Name of the Work: Construction of Two Lane Road Bridge at Pratap Nagar,

Kakinada

VOLUME - I/II

Dated: 24-05-2017



Email: smartcityofficekkd@gmail.com, kakinadacorporation@gmail.com

Website: www.kakinada.cdma.ap.gov.in

Managing Director KSCCL, Kakinada-533001

RFP Notification

KAKINADA SMART CITY CORPORATION LIMITED

Notification: KSCCL/School Infrastructure/2017

Dt: 17-05-2017

Bids are invited from Eligible Bidders for following Item of works

- 1. Up-gradation of High School Infrastructure Package No.I.
- 2. Up-gradation of High School Infrastructure Package No.II.
- 3. Up-gradation of High School Infrastructure Package No.III.
- 4. Reclamation of Parlopeta MSW Dumpsite trough Bio-Mining Process in Kakinda Municipal Corporation.
- 5. Build, Operate and Maintain Biogas based captive Power plant for handling 5 TPD Municipal Solid Waste.
- 6. Design, Develop, Implement and maintenance of Health records (E-Health) of Government Hospitals in Kakinada.
- 7. Construction of Two Lane Road Bridge at Prathapnagar, Kakinada.
- 8. Development of Arterial Road from Sarpavaram Junction to Jagandhapuram Bridge via RTA Office, Dairy farm Junction, Port Railway gate as per design IRC 86-1983 for Urban Road.
- 9. Rehabilitation and Development of Gandhinagar Park.
- 10. Urban Street scaping of main road from Sarpavaram Junction to Balayogi Statue Junction" as Smart Street.

The Proposals can be submitted online e-tendering process through e-procurement portal www.apeprocurement.gov.in from 22 May 2017 onwards.

For Communication, contact us through

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Web site: Kakinada.cdma.ap.gov.in

EE Mob: 9849906516, SE Mob: 8978686555

S/d - xxxxxxx Managing Director KSCCL, Kakinada.

Key Dates

S. No.	Activity	Key Date*	Time
	0.1	,	
1	Release of RFP	26-May-2017	11:00
2	RFP Availability in E Procurement	16-June-2017	16:00
3	Last date of receipt of queries on RFP	03-June-2017	17:00
	Pre-bid Meeting date		
4	Venue: Conference Hall, Municipal		
4	Corporation, Cinema road, Kakinada AP,		
	India	05-June-2017	11:00
5	Posting of response to queries	06-June-2017	17:00
6	Last date for submission of Bids -		
0	Electronically	16-June-2017	17:00
7	Physical Submission	19-June-2017	11:00
8	Date of opening of technical bids (online)	19-June-2017	11:30
9	Date of opening of Commercial bids (online)	24-June-2017	11:00
10	Officer Inviting Bids	Managing Director, I	KSCCL, Kakinada

For more details contact:

Kakinada Smart City Corporation Ltd. Web: www.kakinada.cdma.ap.gov.in

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PART 1 – Bidding Procedures

Section I - Instructions to Bidders

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Section I - Instructions to Bidders	
	A. General
1. Scope of Bid	1.1 With reference to the RFP notice, specified in the Bid Data Sheet (BDS) , the KSCCL, as specified in the BDS , issues this Bidding document for the provision of Works as specified in Section V, Work's Requirements. The name, identification, and number of lots (contracts) of this RFP are specified in the BDS .
	1.2 Throughout this bidding document:
	 a. the term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, including, if specified in the BDS, distributed or received through electronic-procurement system used by the KSCCL) with proof of receipt;
	b. if the context so requires, "singular" means "plural' and vice versa; and
	c. "Day" means calendar day, unless otherwise specified as a "Business Day." A Business Day is any day that is a working day of GoAP. It excludes the GoAP's official public holidays.
2. Fraud and Corruption	2.1 KSCCL requires compliance with the Indian Penal Code 1860 and Prevention of Corruption Act 1988. KSCCL defines, for the purposes of this provision, the terms set forth below as follows
	 a. "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
	b. "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Department, and includes collusive practice among bidders (prior to or after tender submission) designed to establish bid prices at artificial non-competitive levels and to deprive the benefits of free and open competition.
	2.2 Any effort by a bidder to influence the Department in the Department's bid evaluation, bid comparison or contract award decisions may result in rejection of the bidder's tender.
	2.3 The Department will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question
	2.4 In further pursuance of this policy, bidders shall permit and shall cause their agents (where declared or not), subcontractors, sub consultants, service providers, suppliers, and their personnel, to permit KSCCL to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by KSCCL.

3. Eligible Bidders

- 3.1 A Bidder may be an Individual or a firm that is a private entity, a state-owned enterprise or institution or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with a new JV agreement entered solely for the purpose of the said bid. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. The Maximum number of JV members eligible is specified in the BDS.
- 3.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder:
 - (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - (b) has the same legal representative as another Bidder; or
 - (c) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the decisions of the Employer regarding this Bidding process; or
 - (d) has a close business or family relationship with a professional staff of the KSCCL who: (i) are directly or indirectly involved in the preparation of the Bidding document or specifications of the Contract, and/or the Bid evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract.
- 3.3 A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a subcontractor in other Bids. Such participation shall result in the disqualification of all Bids in which the firm is involved.
- 3.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 3.5. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be.
- 3.5 The bidder shall not have been blacklisted by any of the Central government/ State government/ Semi- government/ PSU's of central/ state governments.
- 3.6 Firms of all countries are eligible to apply Deleted.

		3.7 A Bidder shall provide such documentary evidence of eligibility satisfactory to the KSCCL, as the KSCCL shall reasonably request.
		B. Contents of Bidding Document
4.	Sections of Bidding Document	4.1 The Bidding document consists of Volume I and II which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITB 6.
		Volume I
		PART 1 Bidding Procedures
		Section I - Instructions to Bidders (ITB)
		Section II - Bid Data Sheet (BDS)
		Section III - Evaluation and Qualification Criteria
		Section IV -Bidding Forms
		PART 2 Works Requirements
		Section V - Scope of Work
		PART 3 Conditions of Contract and Contract Forms
		 Section VI - General Conditions(GC)
		Section VII- Special Conditions of Contract(SCC)
		Section VIII - Contract Forms
		Financial Bid Part – II- Annexure-I
		Volume II
		PART 4 Works Requirements
		 Section IX - Scope of Work (Drawings and Photographs)
		4.2 The Request for Proposal (RFP) issued by the KSCCL is not part of the Bidding document.
		4.3 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding document and its updates on web portal to furnish with its Bid, all information and documentation as is required by the Bidding document.
5.	Clarification of Bidding Document, Site Visit, Pre-Bid Meeting	5.1 A Bidder requiring any clarification of the Bidding document shall contact the KSCCL in writing at the address specified in the BDS or raise it in writing during the pre-Bid in writing. The KSCCL will respond in writing to any request for clarification, provided that such request is received prior to the deadline specified in Key Dates. The KSCCL shall upload the responses online in the AP e-procurement portal and its website and through mails to the intended bidder who have attended the pre-bid meeting or who have raised queries. It is the bidder's responsibility to check the portal regularly for any updates/postings. KSCCL will not hold any responsibility of posting the same to individual

bidders.
5.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.
5.3 The Bidder and any of its personnel or agents will be granted permission by the KSCCL 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 KSCCL 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
5.4 The Bidder's designated representative is invited to attend a pre-Bid meeting and/or a Site of Works visit. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
5.5 The Bidder is requested to submit any questions in writing, to reach the KSCCL not later than the time specified in 'Key Dates'.
5.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any responses prepared after the meeting, shall also publish the clarifications as given in ITB 5.1 and Minutes of the pre-Bid meeting at the web page identified in the BDS. Any modification to the Bidding document that may become necessary as a result of the pre-Bid meeting shall be made by the KSCCL exclusively through the issue of an Addendum pursuant to ITB 6 and not through the minutes of the pre-Bid meeting. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.
The Contractor shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of his tender for the Scope of Work.
6.1 At any time prior to the deadline for submission of Bids, KSCCL may amend the Bidding document by issuing addenda.
6.2 Any addendum and / or clarifications issued shall be part of the Bidding document and shall be uploaded on the e-procurement portal (as specified in key dates) in accordance with ITB 4.3. KSCCL shall also publish the addendum on the web page in accordance with ITB 5.6.
C. Preparation of Bids
7.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the KSCCL shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding

		7.2 Transaction Fee: It is mandatory for all the participating bidders to pay electronically the Transaction fee to M/s Vupadi Techno Service (P) Ltd through "Payment Gateway Service on E-Procurement platform". The Electronic Payment Gateway accepts all Master and Visa card issued by any bank and Direct Debit facility / Net Banking of ICICI Bank, HDFC to facilitate the transaction. This is in compliance as per G.O Ms No 13 IT & C Dept, dated 5-7-2006. A Service Tax of 15 % + Bank Charges for Credit Card Transaction of 1.85% on the transaction Amount payable to M/s Vupadi Techno Service (P) Ltd shall be applicable which is non-refundable. The Transaction fee payable is specified in the BDS.
		7.3 Bid Processing Fee: A bidding processing fee is payable by the bidder in the form of a Demand Draft drawn in the name of Kakinada Smart City Corporation Limited payable at Kakinada. Scanned Copy of the demand draft shall be uploaded during the bid submission and shall be physically submitted along with the bid. The Bid Processing fee payable is specified in the BDS.
8.	Language of Bid	8.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the KSCCL, shall be in English.
9.	Documents	9.1 The Bid shall comprise the following:
	Comprising the Bid	(a) Authorization : written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB.3;
		(b) Bid Security in accordance with ITB 17.1;
		(c) Conformity: a technical proposal in accordance with ITB 14;
		(d) Letter of Bid prepared in accordance with ITB 10;
		 Qualifications: documentary evidence in accordance with ITB 15 establishing the Bidder's qualifications to perform the Contract if its Bid is accepted;
		(f) Schedules including Bill of Quantities, completed in accordance with ITB 10 and ITB 12;
		(g) Any other document required in the BDS .
		9.2 In addition to the requirements under ITB 9.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members
10.	Letter of Bid and Schedules	10.1 The Letter of Bid and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 18.3. All blank spaces shall be filled in with the information requested.
11.	Alternative Bids	11.1 No alternative Bids shall be considered. Bidders submitting unsolicited alternative proposals will be summarily rejected.

12.Bid Prices and Discounts

- 12.1 The prices quoted by the Bidder in the Letter of Bid and in the Bill of Quantities shall conform to the requirements specified below.
- 12.2 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 shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Employer.
- 12.3 The price to be quoted in the Letter of Bid, in accordance with ITB 10.1, shall be the total price of the Bid.
- 12.4 VOID
- 12.5 Unless otherwise specified **in the BDS** and the Conditions of Contract, the rates and prices quoted by the Bidder are fixed.
- 12.6 If so specified in ITB 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Bidders wishing to offer discounts for the award of more than one Contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 12.4, provided the Bids for all lots (contracts) are opened at the same time.
- 12.7 All duties, taxes as mentioned in ITB 12.A, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date shall be included in the rates and prices and the total Bid Price submitted by the Bidder.

12.A. Taxes, Duties etc.

- 12.8 As part of the Contract Price, the Contractor shall, in connection with the Work include sales tax, octroi, all applicable duties, works contract tax and any other taxes including sales tax on the Work, VAT, levies or royalties payable on the materials and equipment forming part of the Work, now or hereafter imposed, increased or modified from time to time and shall also include any other statutory obligations and no claims on this account shall be entertained or allowed at any stage subsequently.
- 12.9 Taxes, charges, Cess etc., including (but not limited to) Work Contract Tax (WCT), Seignorage/ Sales tax/ Labour Cess and any other charges as may be applicable from time to time at the prevailing rates shall be deducted from all payments made to the Contractor. Contractor shall provide Form "C", Form "38", or any other forms and comply with all the formalities that may be required by the Central/State Government for procurement of Owner supplied material.

All duties, insurances, taxes, and other levies payable by the Implementing Agency under the Contract, or for any other cause, as of the date of submission of bids, shall be included in the total bid price submitted by the Bidder. Bidder should be aware of its tax liability in the Client's country/state (in which he is working) should be reflected in the Contract. No additional claims will be entertained or allowed at any stage subsequently.

13. Currencies of Bid and Payment	13.1 The currency of the Bid and the currency of payments shall be in Indian Rupees.
14. Documents Comprising the Technical Proposal	14.1 The Bidder shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Bidding Forms, in sufficient detail to demonstrate the adequacy of the Bidder's proposal to meet the work's requirements and the completion time.
15. Documents Establishing the Eligibility and Qualifications of the Bidder	 15.1 To establish Bidder's eligibility in accordance with ITB 3, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms and submit true copies of all relevant documents as mentioned. 15.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Bidder shall provide the information requested in the corresponding information sheets included in Section IV, Bidding Forms.
16. Period of Validity of Bids	16.1 Bids shall remain valid for the Bid Validity period specified in the BDS . The Bid Validity period starts from the date fixed for the Bid submission deadline (as prescribed by the KSCCL in accordance with ITB 20). A Bid valid for a shorter period shall be rejected by the KSCCL as nonresponsive.
	16.2 In exceptional circumstances, prior to the expiration of the Bid validity period, KSCCL 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 17, it shall also be extended for thirty days (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.

17. Bid Security

- 17.1 The Bidder shall furnish as part of its Bid, a Bid Security as specified in the BDS in the amount as specified in the BDS.
- 17.2 The Bid Security shall be paid in the form of an unconditional Bank guarantee issued by a nationalized bank or scheduled/ commercial bank drawn in favour of Kakinada Smart City Corporation Limited payable at Kakinada.

The Bid Security shall be submitted using the Bid Security Form included in Section IV, Bidding Forms, The Bid Security shall be valid for thirty days (30 days) days beyond the original validity period of the Bid, or beyond any period of extension if requested under ITB 16.2.

- 17.3 If a Bid Security specified pursuant to ITB 17.1 is not submitted along with the bid then the bid shall be rejected as non-responsive
- 17.4 If a Bid Security is specified pursuant to ITB 17.1, the Bid Security of unsuccessful Bidders shall be returned within 60 days of award of work to the successful bidder
- 17.5 VOID
- 17.6 The Bid Security may be forfeited
 - c. if a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Letter of Bid, or any extension thereto provided by the Bidder; or
 - d. if the successful Bidder fails to:
 - (i) Sign the Contract in accordance with ITB 40; or
 - (ii) Furnish a Performance Security

17.7 The Bid Security of a JV shall be in the name of the JV that submits the Bid.

18. Format and Signing of Bid

- 18.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 9 and clearly mark it "ORIGINAL." In addition, the Bidder shall submit copies of the Bid, in the number specified **in the BDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 18.2 Bidders shall mark as "CONFIDENTIAL" all information in their Bids which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 18.3 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 (with blue colour pen only) on behalf of the Bidder. This authorization shall consist of a written Power of Attorney 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 where entries or amendments have been made shall be signed or initialled by the person signing the Bid (with blue colour pen only).
- 18.4 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally

	hinding on all the manch one or didenced by a negrous of attenney signed
	binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
	18.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialled by the person signing the Bid.
	D. Submission and Opening of Bids
19. Sealing and Marking of Bids	19.1 Unless specified in BDS in detail about submission process of the bid the following is to be followed.
	19.2 The Bids needs to be submitted on the e-tendering portal i.e., https://tender.apeprocurement.gov.in .
	19.3 (A) Physical bid submission should be by hand shall enclose the original of the Technical Bid and copy of the Technical Bid in separate sealed envelopes, duly marking the envelopes as "ORIGINAL - TECHNICAL BID", and "COPY NO TECHNICAL BID". These envelopes, the first containing the originals and the others containing copies, shall then be enclosed in one single envelope per set. If permitted in accordance with ITB 11, alternative bids shall be similarly sealed, marked and included in the sets. The rest of the procedure shall be in accordance with ITB 19.4 and 19.7.
	(B) Bidders submitting bids electronically shall follow the electronic bid submission procedures specified in the BDS.
	19.4 The inner and outer envelopes shall:
	(a) bear the name and address of the Bidder;
	(b) be addressed to the Employer in accordance with BDS 20.1 and
	(c) bear the specific identification of this bidding process indicated in the BDS 1.1
	 19.5 The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bid, in accordance with ITB 23 19.6 VOID 19.7 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. 19.8 All pages in the bid should be numbered appropriately in serial order
20. Deadline for Submission of Bids	20.1 Bids must be received by KSCCL at the address and no later than the date and time specified in the BDS.
	20.2 KSCCL may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding document in accordance with ITB 6, in which case all rights and obligations of KSCCL and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

21. Late Bids	
	 21.1 KSCCL shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 20. Any Bid received by KSCCL after the deadline for submission of Bids shall be declared late, rejected. 21.2 Bidders are encouraged to submit their bids well in advance and avoid last minute rush resulting in "nonresponsive website/ slow uploading/ server down/ server not working etc." or any other case as it may be during the submission of the bids online on the e-procurement system. KSCCL will not be responsible for occurrence of any of the above events.
	21.3 Evaluation of bids shall be based on the uploaded document. If there is any discrepancy between the physical and online documents, documents submitted online ONLY will prevail.
22. Withdrawal, Substitution, &Modification of Bids	22.1 The Bidder may/will not be allowed to withdraw, substitute and modify their bid after it has been submitted and accepted by KSCCL. Any withdrawal of bids will be result in forfeit of Bid security.
23. Bid Opening	23.1 Except in the cases specified in ITB 21 and ITB 22, KSCCL shall publicly open and read out in accordance with this ITB all Bids received by the deadline, at the date, time and place specified in the BDS, in the
	presence of Bidders` designated representatives.
	23.2 All envelopes shall be opened one at a time, reading out: the name of the Bidder and responsiveness of the bid.
	23.2 All envelopes shall be opened one at a time, reading out: the name of the
	23.2 All envelopes shall be opened one at a time, reading out: the name of the Bidder and responsiveness of the bid.
24. Confidentiality	 23.2 All envelopes shall be opened one at a time, reading out: the name of the Bidder and responsiveness of the bid. E. Evaluation and Comparison of Bids 24.1 Information relating to the evaluation of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons
24. Confidentiality 25. Clarification of Bids	 23.2 All envelopes shall be opened one at a time, reading out: the name of the Bidder and responsiveness of the bid. E. Evaluation and Comparison of Bids 24.1 Information relating to the evaluation of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process. 24.2 Any effort by a Bidder to influence the KSCCL in the evaluation of the

26. Deviations, Reservations, and	26.1 During the evaluation of Bids, the following definitions apply:
Omissions	(a) "Deviation" is a departure from the requirements specified in the Bidding document;
	(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding document; and
	(c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding document.
27. Determination of Responsiveness	27.1 KSCCL's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 9.
	27.2 A substantially responsive Bid is one that meets the requirements of the Bidding document without material deviation, reservation, or omission.
	27.3 The KSCCL shall examine the technical aspects of the Bid submitted in accordance with ITB 14, in particular, to confirm that all requirements of Section V, Scope of Work have been met without any material deviation, reservation or omission.
	27.4 If a Bid is not substantially responsive to the requirements of the Bidding document, it shall be rejected by KSCCL.
28. Correction of Arithmetical Errors	28.1 Provided that the Bid is substantially responsive, KSCCL shall correct arithmetical errors on the following basis:
	(a) 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,
	(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; and
	(c) 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) and (b) above.
	28.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 28.1, shall result in the rejection of the Bid.
29. VOID	
30. Subcontractors	30.1 Unless otherwise stated in the BDS , KSCCL does not intend to execute any specific elements of the Works by subcontractors selected in advance by the KSCCL.
	30.2 Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the BDS . Subcontractors proposed by the Bidder shall be fully qualified for their parts of the Works.

	30.3 The subcontractor's qualifications shall not be used by the Bidder to qualify for the Works unless their specialized parts of the Works were previously designated by the KSCCL in the BDS as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Bidder may be added to the qualifications of the Bidder.		
31. Evaluation of Bids	31.1 KSCCL shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies KSCCL shall determine the Most Advantageous Bid in accordance with ITB 36.		
	31.2 To evaluate a bid KSCCL shall consider the following:		
	(a) The selection is based on Least Cost Based selection (LCS) as specified in BDS		
	(b) The evaluation committee shall evaluate the technical proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria, sub-criteria, and point system specified in BDS. Each responsive Proposal will be given a technical score (St). A Proposal shall be rejected at this stage if it does not respond to important aspects of the RFP, and particularly the Terms of Reference or if it fails to achieve the minimum technical score specified in the BDS.		
	(c) The bidders who score minimum qualifying score or more as specified in the BDS shall be treated at par and be considered technically qualified are eligible for opening of financial bid. Financial bids of only those bidders who are qualified in Technical will be opened.		
	(d) The bid price, excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities (BoQ), Activity Schedule, but including all works items, where priced competitively;		
	(e) price adjustment for correction of arithmetic errors in accordance with ITB 28;		
	(f) any other additional evaluation factors specified in the BDS and Section III, Evaluation and Qualification Criteria.		
	31.3 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.		
32. Comparison of Bids	32.1 KSCCL shall compare the evaluated costs of all substantially responsive Bids established in accordance with ITB 31.2 to determine the Bid that has the lowest evaluated cost.		
33. Abnormally Low Bids	33.1 An Abnormally Low Bid is one where the Bid price, in combination with other elements of the Bid, appears so low that it raises material concerns as to the capability of the Bidder in regards to the Bidder's ability to perform the Contract for the offered Bid Price.		

- 33.2 In the event of identification of a potentially Abnormally Low Bid, KSCCL shall seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Bidding document.
- 33.3 After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the KSCCL may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the KSCCL against financial loss in the event of default of the successful Bidder under the Contract. If the increased amount of the performance security is not acceptable to the successful bidder, the KSCCL may in writing reject the bid of the successful bidder and in such case the next ranked bidder may be called for the negotiations and if such situation still persists the next placed bidder may be called for negotiations and so on till the finalization of the contract or the KSCCL may cancel the bidding process and recall the RFPs.
- 33.4 If the bid price is abnormally low i.e., more than 15% less than the KSCCL estimated value, the bidder should deposit an additional security deposit for an equivalent amount of deference between the 15% and quoted price as per ITB 42.

34. Unbalanced or Front Loaded Bids

- 34.1 If the Bid that is evaluated as the lowest evaluated cost is, in KSCCL's opinion, seriously unbalanced or front loaded, the KSCCL may require the Bidder to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Bid prices with the scope of works, proposed methodology, schedule and any other requirements of the Bidding document.
- 34.2 After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the KSCCL may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the KSCCL against financial loss in the event of default of the successful Bidder under the Contract. If the increased amount of the performance security is not acceptable to the successful bidder, the KSCCL may in writing reject the bid of the successful bidder and in such case the next ranked bidder may be called for the negotiations and if such situation still persists the next placed bidder may be called for negotiations and so on till the finalization of the contract or the KSCCL may cancel the bidding process and recall the RFPs.
- 34.3 If the component wise price in the bid is unbalanced or front loaded by less than 15%,the bidder should deposit an additional Performance security for an equivalent amount of 1.5 times of the difference between the estimated price and quoted price for the unbalanced component. As per ITB 42

35. Qualifications of the Bidder

35.1 KSCCL shall determine to its satisfaction whether the eligible Bidder that is selected meets the qualifying criteria specified in Section III, Evaluation

	and Qualification Criteria.
	35.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 15. The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the Bidding document), or any other firm(s) different from the Bidder.
36. Most Advantageous Bid	36.1 Having compared the evaluated costs of Bids, KSCCL shall determine the Most Advantageous Bid. The Most Advantageous Bid is the Bid of the Bidder that meets the Evaluation criteria as per Section III.
37. KSCCL's Right to Accept Any Bid, and to Reject Any or All Bids	37.1 KSCCL 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.
38. Notice of Intention to Award	38.1 After determination of Most Advantageous Bid as per ITB 36 KSCCL will issue Letter of Award to the successful bidder.
	F. Award of Contract
39. Award Criteria& Notification of Award.	39.1 Subject to ITB41, KSCCL shall award the Contract to the successful Bidder. This is the Bidder whose Bid has been determined to be the Most Advantageous Bid. KSCCL will issue Letter of Award to the Most Advantageous Bid
40. Signing of Contract	40.1Promptly upon Notification of Award, the successful bidder shall within 4 days submit Letter of Acceptance of work and within 10 days enter in to the agreement with the KSCCL after duly submitting the performance bank guarantee and completion of any other formalities.
	40.2 Within 3 working days from entering into the contract agreement, KSCCL will issue a Work Order duly indicating the commencement date. Unless otherwise specified the date of commencement of work is the date of issue of Work Order.
41. Performance Bank Guarantee	41.1 Within 10 days of the receipt of the Letter of Award from KSCCL, the successful Bidder shall furnish the Performance Security as mentioned in accordance with the General Conditions of Contract, subject to ITB 34
	41.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event, the KSCCL may award the Contract to the Bidder offering the next Most Advantageous Bid.
42. Additional Performance	42.1 Within 10 days of the receipt of the Letter of Award from KSCCL, the successful Bidder shall furnish the Additional Performance Security as

Security	mentioned in accordance with the General Conditions of Contract, subject to ITB 33 and 38
	42.2 Failure of the successful Bidder to submit the above-mentioned additional Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event, the KSCCL may award the Contract to the Bidder offering the next Most Advantageous Bid.

Section II - Bid Data Sheet (BDS)

	A. General					
ITB 1.1	The reference number of the Request for Proposal (RFP) is: KSCCL/Pratap Nagar Bridge/2017/1 KSCCL is <i>Kakinada Smart City Corporation Limited</i> .					
	The name of the RFP is "Construction of Two Lane Road Bridge at Pratap Nagar, Kakinada"					
ITB 1.2(a)	Electronic –Procurement System					
	The following e procurement system will be used for bidding process.					
	www.apeprocurement.gov.in					
	The electronic-procurement system shall be used to manage the issuing of bid documents, submission and opening of bid documents including queries, issue of clarifications etc. following aspects of the Bidding process:					
ITB 3.1	Maximum number of members in the JV shall be- 2 (Two)					
B. Contents	B. Contents of Bidding Document					
ITB 5.1	For <u>Clarification of Bid purposes</u> only, the KSCCL address is:					
	Kakinada Smart City Corporation Limited					
	D.No- 2-33-10, Peketivari street,					
	Perraju peta, Kakinada- 533001, AP, India Web: www.kakinada.cdma.ap.gov.in					
	Email: smartcityofficekkd@gmail.com					
	kakinadacorporation@gmail.com					
	Attention: Superintending Engineer					
	Mobile: 8978686555					
Email: smartcitysekmc@gmail.com						
	OR					
	Executive Engineer					
	Mobile:9849906516					
	Email: vvenkatasurya99@yahoo.com					
	Sri Sujay Arun J, CEO, KSCCL					
	Email: jsujayarun@gmail.com M: 9989707957					
ITB 5.4	A Pre-Bid meeting shall take place as per the Key Dates					
ITB 5.6	As per ITB 5.1					

C. Preparat	ion of Bids
ITB 7.2	The transaction fee of this bid to be paid online to M/s. Vupadi Techno Services Pvt. Ltd. is Rs.11,500.00 (Rupees Eleven Thousand Five Hundred only)
	including service tax.
ITB 7.3	The Bid Processing fee payable by demand draft is Rs.40,000.00 (Rupees Forty Thousand Only) in favour of Kakinada Smart City Corporation Ltd, payable at Kakinada
ITB 12.5	The prices quoted by the Bidder shall be Fixed. However the price adjustment will be given as per the clause no.13.3 of special conditions of contract.
ITB 16.1	The Bid validity period shall be 180 days from the due date of submission of the bid.
ITB 17.1	A Bid Security in the form of BG for Rs. 4,00,000/- (Rupees Four Lakhs only) required to be submitted along with the bid drawn in favour of Kakinada Smart City Corporation Ltd.
ITB 18.1	In addition to the original of the Bid, the number of additional copies to be submitted is: 2 (two). (Total 3 Nos.)
D. Submissi	on and Opening of Bids
ITB 20.1	For <u>Bid submission purposes</u> only, the address where the bid is to be submitted is as per ITB 5.1
	Attention: <i>The Managing Director</i>
	Kakinada Smart City Corporation Limited
	D.No- 2-33-10, Peketivari street,
	Perraju peta, Kakinada- 533001, AP, India
	The deadline for Bid submission online and physical submission is as per Key Dates
	Bidders are to submit the bids electronically only as per ITB 1.2 (a)
	The electronic Bidding submission procedures shall be by e procurement
	portal of GoAP i.e., <u>www.apeprocurement.gov.in</u>
	After submission of the bid electronically the bidder has to submit physical
	copies as per clause ITB 18.1 by the date given in Key Dates
ITB 23.1	The Bid opening shall take place at:
	Street Address: O/o The Commissioner
	Municipal Corporation, Cinema Road
	Kakinada 533 001
	Bid opening date and time shall be as per Key Dates

E. Evaluation, and Comparison of Bids			
ITB 31.2	Additional requirements apply. These are detailed in the evaluation criteria in		
(d)	Section III, Evaluation and Qualification Criteria.		

Section III - Evaluation and Qualification Criteria

Bid Evaluation Process

The method of evaluation of the Most Advantageous Bid will be based on Quality Based Least Cost Selection (QBLCS). It contains Two steps as given below.

The Employer may constitute a Tender Evaluation Committee to evaluate the responses of the bidders. The Tender Evaluation Committee shall evaluate the responses to the RFP and all supporting documents/documentary evidence. Inability to submit requisite supporting documents/documentary evidence by bidders may lead to rejection of their bids.

The decision of the Tender Evaluation Committee in the evaluation of bids shall be final. No correspondence will be entertained outside the process of evaluation with the Committee. The Tender Evaluation Committee may ask for meetings or presentation with the Bidders to seek clarifications or conformations on their bids.

The KSCCL reserves the right to reject any or all bids. Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP. The steps for evaluation are as follows-

The Technical Evaluation Committee will review the PQ/Technical bids to determine whether the bids are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at Authority's discretion.

- 1. The method of evaluation of the Most Advantageous Bid will be based on Quality Based Least Cost Selection (QBLCS). It contains 2 steps as given below.
 - A. Prequalification (PQ)
 - B. Financial Evaluation

Bidders who qualified in the Prequalification will be further evaluated for financial evaluation.

1.1. Stage 1: Pre-Qualification

The Technical Evaluation Committee shall validate the following documents as per RFP. Each of the Pre-Qualification condition mentioned in this RFP is MANDATORY. In case, the Bidder does not meet any one of the conditions, the bidder shall be disqualified.

- 1.1.1. Scanned copy of Demand Draft towards the cost of bid from a Nationalized/ Scheduled / commercial Bank drawn in favor of Kakinada Smart City Corporation Limited payable at Kakinada.
- 1.1.2. Scanned copy of Bank Guarantee in respect of Bid Security from any nationalized/Scheduled /commercial Bank drawn in favor of Kakinada Smart City Corporation Limited payable at Kakinada.
- 1.1.3. Original Bank Guarantee in respect of Bid Security and bid processing fees should be submitted physically.

- 1.1.4. Permanent Account No (PAN) of the Bidder/Firm/Company/ Society.
- 1.1.5. Self-attested copy of sales/service tax registration and sales/service tax return filed in last three years.
- 1.1.6. Self-attested copy of certificate that the up-to date Income Tax Returns filed.
- 1.1.7. A completion certificate from the client agency certifying the successful completion of the similar work done by the bidder may be uploaded along-with the tender documents.
- 1.1.8. The turnover/net worth/financial status of the bidder shall upload (scanned copy) along with the tender document for the last three Financial years duly certified by a Charted Accountant
- 1.1.9. Technical bids along with the compliance sheet of technical specifications and with necessary documents should be filled in all respects and each paper should be signed by the authorized representative, scanned and uploaded in etendering portal.
- 1.1.10. The bidder has to submit a Letter of Bid as per format given.
- 1.1.11. The bidders should submit copy of valid Certificate of Registration attested by Company Secretary/Authorized Signatory, if applicable.
- 1.1.12. The bidder qualified/satisfies in Pre-Qualification (PQ) criteria will be considered further for evaluation.
- 1.1.13. The bidder should meet all the eligibility criteria as per ITB 3 and submit documentary proof in (i) Form ELI- 1.1, 1.2 and 1.3 with attachments and (ii) Letter of Bid
- 1.1.14. The bidder (including members of JV) should provide information on
- 1.1.14.1. History of Contract non- performance where (a) nonperformance was not challenged by the bidder, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the bidder Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

The bidder should submit Form CON- 2

- 1.1.15. Suspension based on poor execution of a Bid
- 1.1.16. History of Litigation and Pending litigations and should submit Form CON-2
- 1.1.17. PQ for selection:

Technical Eligibility:

- ❖ Should have experience in construction of Road Bridges − 2 Projects worth Rs > 2.00 Crores each.
- ❖ Incase JV, JV partner should meet 50% of the criteria cited above and all the partners together should meet the total criteria.

Financial Eligibility:

- ❖ The bidder should have positive Net Worth in last three financial years.
- ❖ The bidder should have annual turnover of \geq Rs. 4.00 Crores. In any one of the last three financial years.
 - Attested copies of the bidders audited annual reports/ financial statement for last Three Financial years have to be attached along with a certificate from a practicing Chartered Accountant on his letter head confirming annual turnover, net profit, and net worth during these years.
 - 10% weightage per year on the annual turnover and value of work will be considered for bringing the turnover and value of work to the current year.
 - The bidder should submit FIN- 3.1 and 3.2 with attachments in support of the financial qualification.
- ❖ Incase JV, JV partner should meet 50% of the criteria cited above and partners together should meet the total criteria.

The bids qualified in the PQ stage will only be further evaluated for stage-II Financial evaluation.

1.2. Stage II Financial Evaluation

All the technically qualified bidders will be notified to participate in Financial Bid opening process. The Financial bids for the technically qualified bidders shall then be opened on the notified date and time through e-mail and reviewed to determine whether the commercial bids are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at Authority's discretion.

Commercial bids that are not as per the format provided shall be liable for rejection.

The bid which is quoted the lowest rate (L1) will be considered as the Most Advantageous Bid and will be awarded with the work.

Bid Security amount shall be returned for those who don't qualify the financial evaluation stage and after PBG is submitted by the successful bidder.

Section IV - Bidding Forms

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1. Letter of Bid

Date: dd/mm/yyyy To, The Managing Director **Kakinada Smart City Corporation Limited** D.No- 2-33-10, Peketivari street, Perraju peta, Kakinada- 533001, AP, India Subject: RFP No.-_____ dated 12/05/2017 Sir, I/We, the undersigned Bidders, having read and examined in detail the specifications and other conditions in tender document in respect of RFP No. _____ Name of the workthe following information/undertaking/declaration for consideration of the KMC. 1. Price and Validity 1.1 All the prices mentioned in our financial bid are in accordance with the terms as specified in tender document. All the prices and other terms and conditions of this proposal are valid for a period of ____ days from the last date of submission of bids. 1.2 We do hereby confirm that our bid prices include all taxes and cess including Income Tax. 2. Bid Security 2.1 Amount of Earnest Money deposited (EMD): ₹ ______ (Rupees ____only) in the form of a Bank Guarantee from a Nationalized Bank/ Scheduled/ commercial bank in favour of Kakinada Smart City Corporation Limited payable at Kakinada is being enclosed with its No. & Date superscripted on the envelope being deposited physically and scanned copy to be uploaded. 3. Bid Pricing 3.1 We further declare that the RATES stated in our proposal are in accordance with your

4. Qualifying Data

terms & conditions in the tender document.

4.1 We confirm having submitted our qualifying data as required by you in your tender document. In case, you require any further information/ documentary proof in this regard before evaluation of our bid, we agree to furnish the same in time to your satisfaction.

5. **DECLARATION**

I/We have also carefully read the terms and conditions of the bid document and undertake that I/we shall abide.

- 5.1 I/ We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders ITB 6.
- 5.2 I/ We offer to execute in conformity with the Bidding Documents the above said work and accept to the terms and conditions mentioned in the bid document
- 5.3 I/ We possess the necessary professional, technical, financial and managerial resources and competence required by the bid document issued by the KSCCL.
- 5.4 We are not participating, as a Bidder in more than one bid in this bidding process in accordance with ITB 3.
- 5.5 I/ We have fulfilled obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the tender document.
- 5.6 I/We are not insolvent, in receivership, bankrupt or being wound up, not have my/ our affairs administered by a court or a judicial officer, not have my/ our business activities suspended and not the subject of legal proceedings for any of the forgoing reasons.
- 5.7 I/We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal are true to the best of our knowledge and belief and nothing has been concealed there from.
- 5.9 We agree to permit KSCCL 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 KSCCL.
- 5.10 Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.
- 5.11 If our Bid is accepted I/ We commit to obtain Performance Security in accordance with the bidding document.

Thanking you,
Yours faithfully,
(Signature) Seal:
Name: Designation: Business Address:

5.12 We understand that you are not bound to accept the lowest or any bid you may receive.

2. Bill of Quantities

The Bidder has to provide the financial bid in the formats as given here. The financial bid shall be for "Construction of Two Lane Road Bridge at Pratap Nagar, Kakinada"

A. Preamble

- The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Particular Conditions of Contract, Technical Specifications, and Drawings.
- 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 Engineer 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 Engineer may fix within the terms of the Contract.
- The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 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.
- 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.
- 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.
- 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 Engineer in accordance with Sub-Clause 13.5 and Clause 13.6 of the General Conditions.
- The method of measurement of completed work for payment shall be in accordance with provisions laid down by Bureau of Indian Standards IS: 1200 shall be followed except for items of work where specific measurement methodology is specified in the Specifications.
- 9 A Detailed BoQ (Financial Bid Part-2) is enclosed with this document in Annexure 1, which need to be filled by the bidder and the summary sheet should reflect the cost arrived from the Annexure 1 costing.
- Any item not listed in BOQ, Latest applicable AP SoR will be considered. Non listed item in SoR shall be considered from market rates on lowest quotation. In all such maters Engineer's decision is final.
- 11 All the guarantee and warrantee for the equipment / machinery procured under the project as per the BOQ should be managed by the bidder

Financial Bid – Part-1 Summary of Costs

Construction of Two Lane Road Bridge at Pratap Nagar, Kakinada

Part	Items of Work *	Amount in INR	
<u> </u>	Construction of Two Lane Road Bridge at Pratap Nagar, Kakinada		
1	RCC T-Beam Bridge of 14 m effective span X 2 Nos. Super structure & Sub structure		
2	Construction of Retaining Wall on Pile Foundation		
3	Construction of approaches		
4	Cross Bund for diversion of Drain Water		
	Total Amount		

- * A Detailed BoQ (Financial Bid Part-2) is enclosed with this document in annexure 1, which needs to be filled by the bidder and the summary sheet should reflect the cost arrived from the Annexure 1 costing.
 - Bills will be paid as per the BoQ rates quoted in Financial bid part-2 which is enclosed.
- * Any item not listed in BOQ, Latest applicable AP SoR will be considered. Non listed item in SoR shall be considered from market rates on lowest quotation. In all such maters Engineer's decision is final.
- * All the guarantee and warrantee for the equipment / machinery procured under the project as per the BOQ should be managed by the bidder
- * All the components of the project should be covered with 1 year complete comprehensive coverage for any theft, damage etc...

Bidders Qualification

Form ELI -1.1

Bidder Information Form

	Date:		
	RFP No. and title:		
	Page	of	pages
Bidder's name			
In case of Joint Venture (JV), name of each member:			
Bidder's actual or intended country of registration:			
[indicate country of Constitution]			
Bidder's actual or intended year of incorporation:			
Bidder's legal address [in country of registration]:			
Bidder's authorized representative information			
Name:	_		
Address:			
Telephone/Fax numbers:			
E-mail address:	_		
1. Attached are copies of original documents of			
Articles of Incorporation (or equivalent docu-			•
documents of registration of the legal entity		in accordance with IT	B 3
 In case of JV,JV agreement, in accordance w 			
2. Included are the organizational chart, a list of E	Board of Direct	ors, and the benefic	cial ownership.

Form ELI -1.2

Bidder's JV Information Form

(to be completed for each member of Bidder's JV)

		Date:	
	RFB No. a	nd title:	
	Page	of	pages
Bidder's JV name:			
JV member's name:			
JV member's country of registration:			
To member 3 country of registration.			
JV member's year of constitution:			
JV member's legal address in country of constitution:			
JV member's authorized representative information			
Name:			
Address:			
Telephone/Fax numbers:			
	_		
E-mail address:			
1. Attached are copies of original documents of			
Articles of Incorporation (or equivalent docu-	uments of constitut	ion or association),	and/or
registration documents of the legal entity na	med above, in accord	dance with ITB 3.	
2. Included are the organizational chart, a list of Boa	rd of Directors, and	the beneficial own	ership.

Form CON – 2

Historical Contract Non-Performance, Pending Litigation and Litigation History

Bidder's N	lame:				
Date:					
		ame			
RFB No. a	nd titl	e:of		nagos	
Page		01		pages	
Non-Pe	rform	ed Contracts i	n accord	lance with Section III, Evaluation and Qualification C	Criteria
Year		Non- performed portion of contract		Contract Identification	Total Contract Amount (current value in Rs.)
[insert year]	- <u>-</u>			ract Identification: [indicate complete contract e/ number, and any other identification]	[insert amount]
percentage] Nam			Nam	e of Employer: [insert full name]	
Addre			Addr	ess of Employer: [insert street/city/country]	
				on(s) for non-performance: [indicate main	
reason(s)]					
	F	Pending Litigati	on, in acc	cordance with Section III, Evaluation and Qualification	⊥ on Criteria
Year	of	Amoun	t in	Contract Identification	Total Contract
dispu	ite	dispute (i	n Rs.)		Amount (in Rs)
				Contract Identification:	
				Name of Employer:	
				Address of Employer:	
				Matter in dispute:	
				Party who initiated the dispute:	
			Status of dispute:		
				Contract Identification:	
				Name of Employer:	
				Address of Employer:	
				Matter in dispute:	
				Party who initiated the dispute:	
				Status of dispute:	

Cash Flow from Operating

Activities

Form FIN - 3.1:

Financial Situation and Performance

Bidder's Name:					
Date:					
JV Member's Name		_			
RFB No. and title:		_			
Page of					
1. Financial data					
Type of Financial information in		Historic infor	mation for pre	vious 5 years,	
(Rs.)			(in Rs.)		
	Year 1	Year 2	Year 3	Year4	Year 5
Statement of Financial Position (I	nformation fr	om Balance S	iheet)		
Total Assets (TA)					ı
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income State	ment				
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					

2. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	In Rs.
1		
2		
3		

Form FIN - 3.2:

Annual Construction Turnover

Bidder's	Name:			
Date:	·····			
JV Mem	ber's Name			
RFB No.	and title:			
Page	of	pages		
SN	For the last Three Financial Years	Annual Turnover (Rs. Cr.)	Multiplying Factor	Amount Equivalent to current year
1	FY- 1		1.30	
2	FY- 2		1.20	
3	FY- 3		1.10	

Form EXP - 4.1

Bridge Construction Experience

Bidder's Name:		
Date:		-
JV Member's Name_		
RFB No. and title:		
Page	of	pages

Starting Year	Ending Year	Contract Identification	Role of Bidder	Status of Project ¹
		Contract name:		
		Brief Description of the Works performed by the		
		Bidder:		
		Amount of contract:		
		Name of Employer:		
		Address:		
		Contract name:		
		Brief Description of the Works performed by the		
		Bidder:		
		Amount of contract:		
		Name of Employer:		
		Address:		
		(add more rows if required)		

If it is under progress mention % of work complete.

All above statements should be backed by corresponding experience certificate from respective Employers.

Experience will be counted for the completed works and duly enclosing completion certificates from the clients.

 $^{^{1}}$ Mention whether the project is Complete or under progress. If the project is complete than if it is under 0&M then mention so with years in 0&M.

Form EXP - 4.2

Specific Experience of Similar Project Development

Bidder's Name:		
Date:		
Bidder's JV Member Name:		
RFB No. and title:		
Page	of	pages

SN	Contract	Elements	Unit	Quantity	Value
	Details	Executed		executed ²	in Rs.
1	Contract name:				
-	Year of completion:				
	Amount of contract:				
	Name of Employer:				
	Address:				
	If the contract was in JV mention				
	bidder responsibilities and				
	achievement.				
2	Contract name:				
_	Year of completion:				
	Amount of contract:				
	Name of Employer:				
	Address:				
	If the contract was in JV mention				
	bidder responsibilities and				
	achievement.				

 $^{^{\}rm 2}$ All quantities mentioned and the values indicated should be backed by respective certificates from the Employer.

Joint Venture Format

company incorporated, and having its registered office at (Hereinafter referred to as the "First Party"/"One Partner"); M/s	This Mem	norandum of Unders	tanding	(hereinafte	r referre	d to as "N	10U") i	is mad	de and
company incorporated, and having its registered office at	entered i	nto this	("Effe	ective Date	")				
company incorporated, and having its registered office at		_							
(Hereinafter referred to as the "First Party"/"One Partner"); M/s	BETWEEN	I M/s							_, a
Party"/"One Partner"); M/s		· ·		_		_			
having Registered office at				(Her	einarter	reterrea	to as	tne	FIFSt
having Registered office at	M/s.				y) a company	/ incorp	orated	l, and
"Second Party"/ "Each Partner"); M/s									
Registered office at									
Registered office at	M/s) a con	npany incorp	orated	, and h	naving
Hereinafter jointly referred to as the "Parties" and individually as "Each Party" or "a Party" as the case may be. WHEREAS, A) The Government of Andhra Pradesh, Kakinada Smart City Corporation Limited, Kakinada, Andhra Pradesh (hereinafter referred to as the KSCCL or "Employer") invited bid for (B) The Parties hereto formed a Joint Venture or will form a joint venture (hereinafter referred to as the "JV") to jointly execute the above project in all respect NOW THEREFORE IT IS HEREBY AGREED as follows ARTICLE 1: JOINT VENTURE: 1.1. The Parties hereto agree to form the Joint Venture with designated as the One Partner and First Partner and the Lead Partner. 1.2 shall be the Second Member – or Second Partner 1.3 shall be the Third Member – or Third Partner (insert more lines if more partners)									
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(B) The Parties hereto formed a Joint Venture or will form a joint venture (hereinafter referred to as the "JV") to jointly execute the above project in all respect NOW THEREFORE IT IS HEREBY AGREED as follows ARTICLE 1: JOINT VENTURE: 1.1. The Parties hereto agree to form the Joint Venture with designated as the One Partner and First Partner and the Lead Partner. 1.2 shall be the Second Member — or Second Partner 1.3 shall be the Third Member — or Third Partner (insert more lines if more partners)	A) The	e Government of nited, Kakinada, An	dhra Pra	-			-	-	
ARTICLE 1: JOINT VENTURE: 1.1. The Parties hereto agree to form the Joint Venture with designated as the One Partner and First Partner and the Lead Partner. 1.2 shall be the Second Member – or Second Partner 1.3 shall be the Third Member – or Third Partner (insert more lines if more partners)	to a	e Parties hereto formed as the "JV") to jointly ex	d a Joint V kecute the	enture or wi	ll form a jo	oint venture	•		
 1.1. The Parties hereto agree to form the Joint Venture with designated as the One Partner and First Partner and the Lead Partner. 1.2 shall be the Second Member – or Second Partner 1.3 shall be the Third Member – or Third Partner (insert more lines if more partners) 			J 0.0						
Partner and First Partner and the Lead Partner. 1.2 shall be the Second Member – or Second Partner 1.3 shall be the Third Member – or Third Partner (insert more lines if more partners)									
 1.2 shall be the Second Member – or Second Partner 1.3 shall be the Third Member – or Third Partner (insert more lines if more partners) 					re with _	de	esignate	ed as t	he One
1.3 shall be the Third Member – or Third Partner (insert more lines if more partners)									
partners)								P .	• • •
• •			ne Third N	viember – o	r Third Pa	artner (inser	t more	lines	it more
MINISTER A STATE OF THE PROPERTY OF THE PROPER	•	•	: •						

2. The JV shall do business in the name of "______ Joint Venture".

ARTICLE 3: JOINT AND SEVERAL LIABILITIES:

The **Parties** hereto shall, for the above-referred **Projects**, be jointly and severally liable to the **Employer** for the execution of the Projects in accordance with the **Contract** till the actual completion of Contract including defect liability period and operation & maintenance as per bid conditions.

ARTICLE 4: PROPORTIONATE SHARE:

4.1 Each member of the Joint Venture agrees to place at the disposal of the Joint Venture, the benefit of all its experience, technical knowledge and skill, and shall in all respects bear its share of responsibility and burden of completing the contract. The parties herein shall be responsible for physical and financial distribution of work as under.

Lead Partner : Financial responsibility:	
Physical responsibility:	
Other Partners: Financial responsibility:	
Physical responsibility:	

- 4.2 All rights, interests, liabilities, obligations, risks, costs, expenses and pecuniary obligations and all net profits or net losses arising out of the **Contract** shall be shared or borne by the **Parties** in the above **Proportions**.
- 4.3 The members in the proportion as mention in article 4.1, shall contribute sufficient Initial fixed capital for timely execution of the project including commissioning & operating period as per the contract.

ARTICLE 5: JOINT EFFORT AND MANAGEMENT:

- 5.1 The **Parties** shall participate as a **JV** in the submission of bids and further negotiations with the **Employer** and shall co-operate and contribute their respective expertise and resources to secure and execute the **Projects**.
- 5.2 On award of **Projects**, the **First Partner** in consultation with the other members of JV will decide on the final management structure for the successful execution of the **Projects** as per the terms of **Contract**.
- 5.3 All the **Parties** hereby agree to pool in their financial, administrative, managerial, technical and material resources for execution of the **Projects**, including commissioning & operation for the period as stipulated in the contract. The share of interest of the **JV** shall be as per the mutual understanding for the successful completion of the project.

ARTICLE 6: EXCLUSIVITY:

6.1 The co-operation between the **Parties** hereto shall be mutually exclusive i.e. none of them shall without the other **Party's** consent & prior approval of **KSCCL**, approach or cooperate with any other parties in respect of the Project.

In the course of working as associates, the parties to the JV will be sharing information with each other which may be proprietary /confidential information /knowledge acquired by each other. It is hereby agreed that the parties will maintain complete secrecy regarding such information / knowledge and will not divulge to any party for any other purpose except for the success of the joint execution of the contract. All parties will also indemnify each other against any claim that may arise out of using information, which are being claimed proprietary.

ARTICLE 7: Memorandum of Understanding:

- 7.1 This **Memorandum of Understanding** shall be terminated:
 - a. if the Parties mutually confirm that the JV's bid proposal has not been finally accepted by Employer and all rights and obligations of the Parties under or in connection with this Memorandum of Understanding have ceased, or
 - b. after successful completion of the project including commissioning & operation and defect liability period from the date of this Memorandum of Understanding unless extended for a further period on demand of KSCCL& mutual consent of the Parties, or
- 7.2 The **Memorandum of Understanding** can be modified by mutual consent of the Parties to suit the efficient and expeditious execution of Projects including commissioning & operation of Plant or to make this agreement more meaningful to suit the requirements of Employer after the consent of the Employer.

ARTICLE 8: ARBITRATI	ON:
----------------------	-----

8.1	Any dispute resulting from this Agreement the Managing Directors (Chairman of		• •
	by the Managing Directors/Chairman of amicable settlement is not reached with referred to arbitration and shall be reso	in 60 days in any par	ticular case, the dispute shall be
	of the	and any statutory	modifications and enactment
	hereof for the time being in force. The upon both parties. The venue of arbitrat		· ·
ARTICL	E 9: GOVERNING LAWS:		
9.1	This Agreement shall in all respects be g	overned by and inter	preted in accordance with the
	Laws.		

ARTICLE 10: CONFIDENTIALITY:

10.1 No Party hereto shall disclose to any other party any information of a confidential nature including but not limited to trade secrets, know-how acquired from any Party in connection with the subject matter of this Agreement.

ARTICLE 11: ADDRESS OF CONSORTIUM:

- Any and all correspondence from the **Employer** to the **JV** shall be addressed to (name of <u>JV</u>) at the address stated herein below–(any one of the partners). The address of the Consortium office of the partner companies will be deemed to be the address for the purpose of communication.
- 11.2 The notice, if any required to be served on the party by the other party, will be deemed to be served, if the said notice / communication is delivered by Registered Post at the respective address

(name of JV)		

ARTICLE 12: Authorized Representative:

- 12.1 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.
- 12.2 Authorized Representative of JV :_____

ARTICLE 13: ASSIGN ABILITY:

13.1 The interests and rights of a Party in the Contract and as a Party of the Joint Venture shall not be transferable or assignable without the written consent of the Employer & other party.

ARTICLE14: INTERPRETATION OF HEADINGS:

14. The headings of each of the Articles herein contained are inserted merely for convenience of reference and shall be ignored in the interpretation and construction of any of the provisions herein contained.

ARTICLE 15: OTHERS

Any other matters not contained in this Agreement shall be discussed and amicably agreed upon by the Parties in the spirit of mutual trust and cooperation for timely completion of project including commissioning & operation of project. Notwithstanding anything above all the Parties are severally and jointly responsible to the Employer for execution of the Contract

ARTICLE 16: Forming Company on award of Contract

- 16.1 We undertake to form a Special Purpose Vehicle (SPV) to be registered under Indian Companies Act on award of contract before signing of agreement. We undertake that and we will be jointly and severally responsible to execute the works by a incorporated company and constituent company.
- 16.2 We as individual partners undertake to be responsible for completion of works and also for any recoveries if applicable. We will be responsible to complete the works by Individual or by the SPV/New Company.

ne duly authorized representatives as appearing below:-				
Signed by				
For and on behalf of	_			
In the presence of				
Name	Name			
Designation	Designation			
Signed by				
For and on behalf of				
In the presence, of				
Name	Name			

Designation

Designation

IN WITNESS WHEREOF the Parties hereto have caused this Agreement to be executed by each of

Bid Security (Bank Guarantee)

(To be on Rs.100/-non-judicial stamp paper)

	e, and Address of Issuing Branch or Off	
	Name and Address of Employer	•••••••••••••••••••••••••••••••••••••••
Bid Security No.:		
	[Insert name of the Bidder]	
•	ponse to RFP inter alia for selection of t	_
	Name of the Project	
	issued by Kakinada Smart City Corporat	·
	CL considering such response to the RFP	
	er the terms of the RFP, theins	
	unequivocally, irrevocably and unconditions in the conditions of t	
	tion Limited, O/o Kakinada municipal co	
	on demand in writing from KSCCL <i>or</i> any	·
-	not exceeding Rupees	_(words) only, on behalf of
M/s.	[Insert name of the Bidder].	
including	and binding on this Bank up to and[insert date of validity in accorded and shall not be terminable by note term of contract or by any other reaso ed or discharged by any extension of timer without our knowledge or consent, by	ance with ITB Clause 17 of this notice or any change in the ns whatsoever and our liability ne or variations or alternations
•	this Guarantee is restricted to Rs only). Our Guarantee shall remain in	
	rdance with ITB Clause 16 of this RFP]	
shall be entitled to invoke this	Guarantee till [Insert date	e which is 30 day s after the
date in the preceding sentence		
The Guarantor Bank he	ereby agrees and acknowledges that the	KSCCL shall have a right to

invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by KSCCL, made in any format, raised at the above-mentioned address of the Guarantor Bank, in order to make the said payment to KSCCL.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [Insert name of the Bidder] and/or any other person. The Guarantor Bank shall not require KSCCL to justify
the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against KSCCL in respect of any payment made hereunder.
This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Kakinada shall have exclusive jurisdiction.
The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.
This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.
This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly KSCCL shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder or to enforce any security held by KSCCL or to exercise, levy or enforce any distress, diligence or other process against the Bidder.
Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to
Rs only) and it shall remain in force until
[Date to be inserted on the basis of ITB Clause 16 of this RFP] with an
additional claim period of thirty (30) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if KSCCL serves upon us a written claim or demand.
Signature
Name
Power of Attorney No
For
[Insert Name of the Bank]
Banker's Stamp with Full Address.
Dated this day of, 20

PART 2 – Scope of Work

Section V - Scope of Work

Contents

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В.	Specifications	52
C.	Drawings	61

A. Work Requirements

1. SCOPE OF WORK – General

a. **EXISTING SITUATION**

The different features and on-site conditions of the proposed construction site and existing bridge are tabulated below.

Table 1 Different features and on-site condition

Feature	Situation on Site	
Location	Pratapnagar Area near Kakinada-	
	Samalkot Road at km 2/820	
Adjacent Roads	Kakinada - Samalkot Road	
Landmarks	Ramalayam Temple, Pratap Nagar	
	Bridge Bus Stop	
Approx. Width	4 m (Existing Carriageway Width)	
Approx. Length	14 m Effective Span x 2 Nos.	
Carriage way Single Lane		

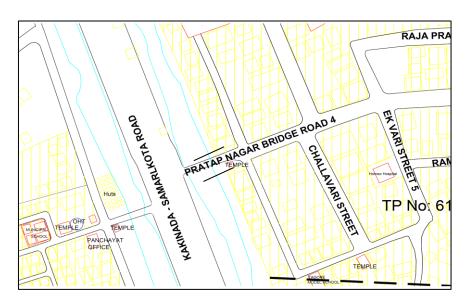


Fig.1 Master Plan Extract of Pratap Nagar Bridge



Plate 1: Proposed bridge site location

The broad scope of work under the bid "Construction of Two Lane Road Bridge at Pratap Nagar, Kakinada" under Kakinada Smart City Proposal Implementation shall include development and construction as per the Bill of Quantities given in the Volume I/II – Annexure I of the Bid Document and Specifications, Engineering Standards and Tender Drawings for Road Bridge given in this section.

The works summarily consists of the following:

- Construction of a New Bridge with Two Vents X 14 m Effective Span
- Formation of Approach Roads
- Retaining Wall Resting on Pile Foundation for Approach Roads
- Diversion Arrangements for Drain Water
- Formation of Cross Bund for Temporary Diversion of Drain Water
- Dismantling of the Existing Bridge

Conceptual drawings are given in this Volume II/II of the bid. Execution of the work shall be based on detailed designs and working drawings given by the Employer.

Contractor shall do all necessary co-ordination activities with KSCCL and PMC for seamless implementation of the said works.

b. DETAILED SCOPE OF WORK

Detailed scope of work for various Civil works are listed below. However, the same is elaborated in the specifications, which shall prevail.

c. CIVIL WORKS

Super-structure: R.C.C T-Beam Girder and R.C.C Slab super structure of 14.0 m effective span x 2 Nos. of 12 m bridge width with footpaths are proposed as per IRC Standard Plans for Highway Bridges vide Drawing No. SD/251, SD/253, SD/254, SD/255 and SD/257 as per Standard Plans for Highway Bridges (R.C.C T-Beam and Slab Super Structure Bridge of 14 m Effective Span).

Sub-structure: R.C.C wall type sub-structure for pier and abutments. Abutment wall is provided with dirt wall and bed blocks.

Foundations: Bored cast-in-situ piles of 1200 mm diameter as per IS: 2911 Part I/Sec.2 which in turn connected by rigid RCC pile caps to support bridge piers and abutments.

Approach Retaining Wall: R.C.C retaining wall with vertical stem and base slab is resting on 500 mm diameter bored cast-in-situ piles to retain earth and crust of proposed approaches.

Bearings: Elastomeric bearings to be provided under T-Beam superstructure as per IRC: 83.

Sub-structure Provisions:

- a. Weep holes, filter media and back filling are proposed as per IRC 78-2000.
- b. Quadrilateral revetment of 300 mm thick over filter media of 150 mm for Quadrants.
- c. Toe wall 600 m width for supporting the revetment at bottom.

B. Specifications

i. Construction of Bridge:

- 1. Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter using approved drilling method to the required depth up to the cut -off level in pile cap in RCC M 35 grade with a minimum cement content of 419 kg/cum using Blue metal of 20mm and down gauge to carry a safe working load not less than the specified, excluding the cost of steel reinforcement but including the cost of boring with casing from natural/formed ground level, bentonite mud circulation of approved specific gravity and the length of the pile to be embedded in the pile cap. The cost shall include the cost of dismantling of laitance/week concrete as per BIS norms, removal of dismantled debris and waste bore mug from the site with all lift and leads up to 1000 mm as directed by the Engineer-in-charge. The rate shall include all machineries required for boring, genset, skilled labor etc. (length of pile for payment shall be measured up to the bottom of pile cap) pile diameter 1200 mm (using concrete mixer).
- 2. Dynamic Pile Load Test on single vertical pile in accordance with ASTM D 4945-12 including all testing arrangements such as pile head preparation for conducting the test, supply and fixing of ply wood cushion of required thickness and hardness, S&F of mild steel cap plate, hire charges for hydra/power winch with tripod, hire charges for driving hammer all incidental charges etc. complete, necessary gauges installation, conducting the test and submission of report with two hard copies and one soft copy Initial or Routine load test.
- 3. Hire and operational charges of vacuum dewatering system including power generator of not less than 35 kVA capacity driving 110 to 120 number of filter points for constructing pile cap all-round pit of the size for pile cap regular intervals in to the ground to keep the pit in dry condition connecting the filter points to the PVC pipes and then to the suction motors including labor charges for driving the points, delivering the discharge water to the nearest outlet etc. complete as directed by the Engineer-in-charge.
- 4. Earthwork excavation in soils up to SDR by mechanical means for foundations of structures as per drawing and technical specification including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing sides of bottom, back filling the excavation earth to the extent required etc., complete for finished item of work as per MoRT&H Specification 304 (5th Revision).
- 5. P.C.C (1:3:6) Nominal mix in foundation with crushed stone aggregate 40mm nominal size mechanically mixed placed in foundation and compacted by vibration including curing complete as per MoRT&H Specification No.2100.
- 6. Vibrated Reinforced cement concrete M 30 Grade Concrete using 40mm, 20mm and 10mm size HBG crushed stone aggregate (Coarse aggregate conforming to table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, and conveyance of all materials to site and all labour charges for machine mixing, laying in position, Compacting, Vibrating and curing including all other incidental and all other

- operational charges of T&P required etc., complete as per MoRT&H Specification 1500, 1700, 2100 (5th Revision) for Pile Caps.
- 7. Vibrated cement concrete M 30 Grade Concrete using 40mm, 20mm and 10mm size HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, and conveyance of all materials to site and all labour charges for machine mixing, laying in position, compacting, Vibrating and curing including all other incidental and all other operational charges of T&P required etc., complete as per MoRT&H Specification 1500, 1700, 2200 (5th Revision) for Sub-structure for Piers etc.
- 8. Vibrated reinforced cement concrete M 30 grade using 20 mm & 10 mm HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, vibrating, curing etc., including other incidental hire and operational charges of all T&P as per approved drawings and as directed during execution but excluding cost of steel and its fabrication charges for finished item as per MoRT&H Specification 1500, 1600, 1700 & 2200 (5th Revision) and as directed by the Engineer-in-Charge for Sub-structure for Abutments, Fly wings, Bed blocks and Backing Walls.
- 9. Vibrated reinforced cement concrete M 30 grade using 20mm & 10mm HT crushed stone aggregate (Coarse aggregate conforming to table 1000-1 and fine aggregate conforming to table 1000-2) including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, vibrating, curing etc., including other incidental hire and operational charges of all T&P etc., complete as per approved drawings and as directed during execution but excluding cost of steel and its fabrication charges for finished item as per MoRT&H Specification 1500,1600,1700 and as per MoST DRG No.SD/251, 253, 254 and 255 for Deck Slab and Beams.
- 10. Vibrated cement concrete M 30 Grade Concrete using 40mm, 20mm and 10mm size HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, and conveyance of all materials to site and all labour charges for machine mixing, laying in position, Compacting, Vibrating and curing including all other incidental and all other operational charges of T&P required etc., complete as per MoRT&H Specification 1500,1700, 2100 (5th Revision) for Levelling course below Approach Slab.
- 11. Vibrated reinforced cement concrete M 30 grade using 20mm & 10mm HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, vibrating, curing etc., including all other incidental and operational charges of all T&P etc., complete for finished item of work as per approved drawing, excluding cost of steel and its fabrication charges as per MoRT&H Specification 1500, 1600, 1700 and 2704 and as per MoST Drg.No.SD/157 & 158 for Approach Slab.
- 12. Vibrated reinforced cement concrete M 30 grade using 20mm & 10mm HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, conveyance of all materials to site and

- labour charges, centering, machine mixing, laying, vibrating, curing etc., including all other incidental and operational charges of all T&P etc., complete for finished item of work but excluding cost of steel and its fabrication charges as per MoRT&H Specification No. 1500, 1600,1700 & 2702 for Wearing Coat over Deck Slab.
- 13. Providing HYSD bars (Fe-415) of different diameters, wrought and put up bars of all diameters including cost and conveyance of steel to site and all labour charges for fabrication of reinforcement including cutting, bending, binding rods, tying grills, placing them in position etc., complete including cost and conveyance of binding wire and all handling charges and operational charges etc., and including over lapping welding if required etc., complete for all R.C.C items for finished item of work as per standard drawings, as per the directions of the Engineer-in-Charge and as per MoRT&H Specification 1600 &2200 (5th Revision) and as per IS: 1786 of 1985 for Super structure of R.C.C items MoST DRG No.SD/257.
- 14. Providing HYSD bars (Fe-415) of different diameters, wrought and put up bars of all diameters including cost and conveyance of steel to site and all labour charges for fabrication of reinforcement including cutting, bending, binding rods, tying grills, placing them in position etc., complete including cost and conveyance of binding wire and all handling charges and operational charges etc., and including over lapping welding if required etc., complete for all R.C.C items for finished item of work as per standard drawings, as per the directions of the Engineer-in-charge and as per MoRT&H Specification 1600 & 2200 (5th Revision) and as per IS: 1786 of 1985 for Sub structure of R.C.C items.
- 15. Providing HYSD bars (Fe-415) of different diameters, wrought and put up bars of all diameters including cost and conveyance of steel to site and all labour charges for fabrication of reinforcement including cutting, bending, binding rods, tying grills, placing them in position etc., complete including cost and conveyance of binding wire and all handling charges and operational charges etc., and including over lapping welding if required etc., complete for all R.C.C items for finished item of work as per standard drawings, as per the directions of the Engineer-in-Charge and as per MoRT&H Specification 1600 &2200 (5th Revision) and as per IS: 1786 of 1985 for foundations of R.C.C items.
- 16. Providing weep holes in Abutments, Return walls and wing walls with 100mm Diameter AC pipe extending through the full width of the structure at 1.00m C/C in both horizontal and vertical direction so that the weep holes in each horizontal direction is staggered from the weep holes laying above and below lines as shown in drawing including cost and conveyance of the A.C pipes and labour charges for cutting to required length, placing the pipe with a slope of about 1V: 20H towards stream side face etc., complete for finished item of work for weep holes as per MoRT&H Specification 2706 & 2200 (5th Revision).
- 17. Supplying and fixing of GI drainage spouts complete as per MoRT&H Specification No.2705 and as per MoST Drawing No.SD/205.
- 18. Providing and laying of a strip seal expansion joint to maximum horizontal movement up to 70 mm, including cost, conveyance of all materials and charges for cutting, fixing & painting exposed surfaces of MS angles with anti-corrosive paints etc,. complete as

- per approved drawings and standard specifications to be installed by the manufacturer/supplier or authorized representative ensuring compliance to the manufacturer's instructions for installation and directed by the Engineer-in-charge.
- 19. Supplying, fitting and fixing in position true to line and level elastomeric neoprene bearings conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications and as per MoRT&H Specification No.2000 & 2200.
- 20. Vibrated reinforced cement concrete M 30 grade using 20mm & 10mm HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, vibrating, curing etc., including other incidental hire and operational charges of all T&P as per approved drawings and as directed during execution but excluding cost of steel and its fabrication charges for finished item as per MoRT&H Specification 1500, 1600, 1700 & 2200 (5th revision) and as directed by the Engineer-in-Charge for Bearing Pedestal.
- 21. Providing 160mm PVC conduits for services in the footpaths as per the MoST DRG. No.SD/104.
- 22. Construction of precast VRCC railing of M 30 grade using HBG crushed stone aggregate of size not exceeding 12 mm and fine aggregate conforming to Table 1000-2 true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical posts not to exceed 2000mm, leaving adequate space between vertical posts for expansion including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, vibrating, curing etc., including other incidental hire and operational charges of all T&P as per approved drawings and as directed during execution, excluding cost of steel and its fabrication charges as per approved drawings and technical specifications for finished item of work as per MoRT&H Specification 2703, 1500, 1600, 1700 (4th Revision) as per MoST Drawing No.SD/202 of RCC T beam and slabs.
- 23. Soil Investigation and Testing for Confirmatory boreholes.
- 24. Painting to Hand Railing, Road Signs Markings as per IRC.
- 25. Temporary shifting and relaying of existing 2 Nos. of 200mm diameter GI water supply pipelines.
- 26. Structural and Foundation Designs Proof Checking Consultancy Charges.
- 27. Laying New Water Supply Main 300 mm Diameter x 1 No. DI K9 pipe line with necessary supporting arrangements.
- 28. Dismantling of the Existing Bridge.

ii. Construction of Retaining Wall:

1. Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter using approved drilling method to the required depth up to the cut -off level in pile cap in RCC M-35 grade with a minimum cement content of 419 kg/cum using Blue metal of 20mm and down gauge to carry a safe working load not less than the specified, excluding the cost of steel reinforcement but including the cost of boring with casing from natural/formed ground level, bentonite mud circulation of

approved specific gravity and the length of the pile to be embedded in the pile cap. The cost shall include the cost of dismantling of laitance/week concrete as per BIS norms, removal of dismantled debris and waste bore mug from the site with all lift and leads up to 1000 mm - as directed by the Engineer-in-charge. The rate shall include all machineries required for boring, genset, skilled labor etc. (length of pile for payment shall be measured up to the bottom of pile cap) - pile diameter 500 mm (using concrete mixer).

- 2. Dynamic Pile Load Test on single vertical pile in accordance with ASTM D 4945-12 including all testing arrangements such as pile head preparation for conducting the test, supply and fixing of ply wood cushion of required thickness and hardness, S & F of mild steel cap plate, hire charges for hydra/power winch with tripod, hire charges for driving hammer all incidental charges etc. complete, necessary gauges installation, conducting the test and submission of report with two hard copies and one soft copy Initial or Routine load test.
- 3. Hire and operational charges of vacuum dewatering system including power generator of not less than 35 kVA capacity driving 110 to 120 number of filter points for constructing pile cap all-round pit at regular intervals in to the ground to keep the pit in dry condition connecting the filter points to the PVC pipes and then to the suction motors including labor charges for driving the points, delivering the discharge water to the nearest outlet etc. complete as directed by the Engineer-in-charge.
- 4. Earthwork excavation in soils up to SDR by mechanical means for foundations of structures as per drawing and technical specification including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing sides of bottom, back filling the excavation earth to the extent required etc., complete for finished item of work as per MoRT&H Specification 304 (5th Revision).
- 5. P.C.C (1:3:6) Nominal Mix in foundation with crushed stone aggregate 40mm nominal size mechanically mixed placed in foundation and compacted by vibration including curing complete as per MoRT&H Specification No.2100.
- 6. Vibrated Reinforced Cement Concrete M 30 Grade concrete using 40mm, 20mm and 10mm size HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost and conveyance of all materials to site and all labour charges for machine mixing, laying in position, compacting, vibrating and curing including all other incidental and all other operational charges of T&P required etc., complete as per MoRT&H Specification 1500, 1700, 2100 (5th Revision) for Pile Cap.
- 7. Vibrated Reinforced Cement concrete M 30 grade using 20mm & 10mm HBG crushed stone aggregate (Coarse aggregate conforming to Table 1000-1 and fine aggregate conforming to Table 1000-2) including cost, conveyance of all materials to site and labor charges, centering, machine mixing, laying, vibrating, curing etc., including other incidental hire and operational charges of all T&P as per approved drawings and as directed during execution but excluding cost of steel and its fabrication charges for finished item as per MoRT&H Specification 1500, 1600, 1700 & 2200 (5th revision) and as directed by the Engineer-in-Charge for Substructure for Retaining Wall Stem.

- 8. Construction of Precast VRCC railing of M 30 grade using HBG crushed stone aggregate of size not exceeding 20mm and fine aggregate conforming to Table 1000-2 true to line and grade, tolerance of vertical R.C.C post not to exceed 1 in 500, centre to centre spacing between vertical posts not to exceed 2000mm, leaving adequate space between vertical posts for expansion including cost, conveyance of all materials to site and labor charges, centering, machine mixing, laying, vibrating, curing etc., including other incidental hire and operational charges of all T&P as per approved drawings and as directed during execution, excluding cost of steel and its fabrication charges as per approved drawings and technical specifications for finished item of work as per MoRT&H Specification 2703, 1500, 1600, 1700 (5th Revision).
- Furnishing and placing reinforced cement concrete VRCC M 25 grade as per approved drawings and technical specifications as per MoRT&H specification 1500, 1600, 1700 (4th revision) and as per M.O.S.T DRG No SD/200 ,241,243, to 245 excluding cost of steel and fabrication charges for VRCC M-25 for Kerbs & Foot Paths.
- 10. Providing HYSD bars (Fe-415) of different diameters, wrought and put up bars of all diameters including cost and conveyance of steel to site and all labour charges for fabrication of reinforcement including cutting, bending, binding rods, tying grills, placing them in position etc., complete including cost and conveyance of binding wire and all handling charges and operational charges etc., and including over lapping welding if required etc., complete for all R.C.C items for finished item of work as per standard drawings, as per the directions of the Engineer-in-Charge and as per MoRT&H Specification 1600 & 2200 (5th revision) and as per IS: 1786 of 1985 for Super structure of R.C.C items.
- 11. Providing Grouted Revetment with rough stone (HBG) of not less than 300 mm size grouted with 0.20 cum of CC (1:4:8) including cost, and conveyance of materials to site and including labor charges for packing the stones for revetment etc., complete for finished item of work as per MoRT&H Specification 2504 (5th Revision) and as directed by the Engineer-in-Charge for Quadrilateral Revetment.
- 12. Pitching with 300 mm size rough stone including cost, and conveyance of materials to site and including labor charges for packing the stones for revetment etc., complete for finished item of work as per MoRT&H Specification 2504 (5th Revision) and as directed by the Engineer-in-charge for Pitching of Slopes for Toe Wall.
- 13. Providing and laying filter material with Gravel (selected earth) underneath pitching in slopes including cost, and conveyance of materials to site including labor charges etc., complete for finished item of work as per MoRT&H Specification 2504 (5th Revision) and as directed by the Engineer-in-charge under Revetment.
- 14. Back filling behind Abutments with gravel (selected earth) including cost, conveyance of all materials to site etc., complete as per Clause 710.1.4 of IRC: 78 and as per MoRT&H Specification No. 2200 and as per Cl 710.1.4 of IRC: 78.
- 15. Providing and laying of filter media using 50% of 150 mm IRC soling stone and 50% of 40 mm HBG metal satisfying the requirements laid down in clause 2504.2.2 of MoRT&H specifications to thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind the abutment, wing wall and return wall to the full height compacted to a firm

- condition including cost and conveyance of all metal seignorage charges ,and all labor charges as directed by the departmental officers as per drawing and Technical specifications as per clause 710.1.1 of IRC:78 and Clause 2200 of MoRT&H (5th Revision) for finished item of work.
- 16. Providing weep holes in VCC Abutments, Return walls and wing walls with 100mm Diameter AC pipe extending through the full width of the structure at 1.00 m C/c in both horizontal and vertical direction so that the weep holes in each horizontal direction is staggered from the weep holes laying above and below lines as shown in drawing including cost and conveyance of the A.C pipes and labor charges for cutting to required length, placing the pipe with a slope of about 1V: 20H towards stream side face etc., complete for finished item of work for weep holes as per MoRT&H Specification 2706 & 2200 (5th Revision).

iii. Construction of Approach Roads

- 1. Forming embankment with borrowed useful earth from outside road boundary by mechanical means up to SDR with all leads and lifts including pre-watering of soil at borrow area, removal of top soil, excavation of soils at borrowed area, conveyance of soil, depositing the soil on the embankment, spreading soil, breaking clods, sectioning, grading and consolidation with 8 to 10 Tonnes Vibratory Road Roller @ OMC to meet requirement of Table 300-2 of MoRT&H, including all hire and operational charges of T&P and charges, complete for finished item of work as per MoRT&H specification 305 (5th Revision).
- 2. Construction of Granular sub-base by providing HBG material confirming to Grading -V of MoRT&H Table 400-1 including cost, charges and conveyance of all materials to work site and spreading in uniform layers with motor grader or by approved means, on prepared surface mixing by mix in place method with Rotavator/ approved means at OMC and compacting with vibratory roller to achieve the desired density etc., complete for finished item of work as per MoRT&H Specification 401 (5th Revision) and as directed by the Engineer-in-charge
- 3. Providing, Laying, Spreading and compacting graded HBG crushed stone aggregate to Wet Mix Macadam specification including cost, seignorage of all materials and including premixing the material with water at OMC in Mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in base courses on well prepared surface and compacting with Vibratory roller to achieve the desired density etc., as directed by the Engineer-in-Charge and as per MoRT&H Specification 406 (5th Revision) for finished item of work.
- 4. Providing and applying primer coat with bitumen emulsion (SS1) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 kg/Sq.m using mechanical means as per MoRT&H specification Clause No.502 and as directed by the Engineer-in-charge.
- 5. Providing and applying tack coat with bitumen 80/100 VG10 (Bulk) using Bitumen pressure distributor at the rate of 0.25 kg per Sq.m on the prepared bituminous/granular surface cleaned with mechanical broom for finished item of work as per MoRT&H Specification 503 (5th revision) and as directed by the Engineer-incharge.

- 6. Providing and laying of 50mm thick Bituminous Macadam with 100 -120 TPH hot mix plant producing an average output of 75 tonnes per hour using hard blasted granite crushed aggregates of Grading -II as per Table 500-7 of MoRT&H Specification 504 (5th Revision) premixed with bituminous binder of VG-30 grade @ 3.4% by weight of total mixture, transported to site, laid over a previously prepared surface with Mechanical paver finisher with sensor control to the required grade, level and alignment and rolled as per Clauses 501.6 and 501.7 to achieve the desired compaction for finished item of work as directed by the Engineer-in-Charge including hire and operational charges all T&P and all other contingent charges necessary, complete and as per MoRT&H Specification No. 504 (5th Revision).
- 7. Providing and applying tack coat with bitumen 80/100 VG10 (Bulk) using Bitumen pressure distributor at the rate of 0.20 kgs per sqm on the prepared bituminous/granular surface cleaned with mechanical broom for finished item of work as per MoRT&H Specification 503 (5th revision) and as directed by the Engineer-incharge.
- 8. Providing, laying of close graded premix surfacing material (Mixed seal surfacing) of 20 mm thickness by hot mix plant using hard blasted granite crushed aggregates of 13.2 mm to 0.09 mm (Type 'B') as per table 500-19 of Specification 508 of MoRT&H (5th Revision), premixed with bituminous binder VG-30 (60/70) grade @ 19.00 kg per 10 Sq.m area, including cost of all materials and transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled roller 8 to 10 Tonnes as per MoRT&H (5th Revision) Specification No. 508 complete for finished item of work in all respects as directed by Engineer-in-Charge.
- 9. "Construction of Gravel shoulders (Selected Earth) including cost, and conveyance of all materials to work site and spreading in uniform layers by approved means, on prepared surface and compacting with vibratory roller to achieve the desired density at OMC etc., complete for finished item of work as per MoRT&H Specification 401& 407 (5th Revision) and as directed by the Engineer-in-charge for Gravel Shoulders and Grading of canal bunds.

iv. Formation of Cross Bund

- 1. Forming cross bund with borrowed useful earth outside road boundary by mechanical means up to SDR with all leads and lifts including pre-watering of soil at borrow area, removal of top soil, excavation of soils at borrowed area, conveyance of soil, depositing the soil on the embankment, spreading soil, conveyance of soil, depositing the soil on the embankment, spreading soil, breaking clods, sectioning, grading and consolidation with 8 to 10 tones road roller at OMC including all hire charges and operational charges of T & P etc. complete for finished item of work as per MoRT&H Specification 305 (4th Revision).
- Providing laying reinforced cement concrete Hume pipes of 1000 mm dia. NP3 class for pipe culverts including cost and conveyance of pipes etc. complete and labor charges for laying, jointing of 1000 mm dia. RCC Hume pipes in position including lifting, aligning, lowering and hoisting etc. as per drawing and as per MoRT&H

- Specification 2900, 2905 and 2906 (4th Revision) and IRC Special Publication No.13 and as directed by the Engineer-in-charge for finished item of work.
- 3. Providing casuarina bullies props 4" to 5" dia. 20'-0" height vertical posts and 3" to 4" dia. 12'-0" height horizontal posts including cost and conveyance of casuarina posts and labor charges and fixing the casuarina posts including all labor charges such as cutting the casuarina posts to the required size and shape and bottom of the post in position including cost of nails for fixing etc., for all operations such as unloading and tacking at site of work for verification etc., complete (Typical drawing is enclosed).
- 4. Laying sand bags in the stipulated places including cost of empty cement bag, sand, threads, stitching charges and labor charges with 10% overhead charges and contractor profits.
- 5. Supply and fixing double layer of bamboo matting tarred on both sides including cost and conveyance and labor charges for all operations such as unloading and stacking at site of work for verification etc. complete.
- 6. Removing of cross bund, filling of trenches etc. after completion.

C. Drawings & Photographs

A Few Photographs of the existing bridge and location plans are appended in Volume II/II.

1.0 DRAWINGS:

- 1.1 The plans enclosed with the tender are liable to be altered during execution of work as per necessity of site conditions. The premium quoted by the contractor for various items shall hold good for execution of work even with altered plans
- 1.2 One set of drawings, on the basis of which actual execution of the work is to proceed shall be furnished free of cost to the contractor by the Superintending Engineer/Executive Engineer progressively according to the work program submitted by the contractor and accepted by the Superintending Engineer/Executive Engineer. Drawings for any particular activity shall be issued to the contractor at least 7 days in advance of the scheduled date of the start of the activity. However, no extra claims by the contractor toward any delay in issue of drawing or issue of any revision/change to the drawings issued earlier shall be admissible. The Superintending Engineer shall intimate the contractor 7 days in advance regarding any delay to issue of drawings, for any particular stage of works. If work gets affected due to delay to issue of drawings, for condition of tender notice.
- Signed drawings above shall not be deemed to be an order for work unless they entered in the agreement or schedule of drawings under proper alterations of the contractor and Executive Engineer or unless they have been sent of the contractor by the Executive Engineer with a covering letter confirming that the drawing in and authority for work in contract.

2.0 DISCREPANCIES:

- 2.1 In case of discrepancies between documents the following order of procedure shall apply:-
- 2.2 Between the written description of written dimensions in the drawings and the corresponding one in the specifications, the latter shall apply.
- 2.3 Figured dimensions shall supersede scaled dimensions. The drawings on a larger scale shall take precedence over those on a smaller scale.
- 2.3.1 Drawings issued as construction drawings from time to time shall supersede tender drawings and also the correspondence drawings previously issued.

Note: The contractor should not execute any component of work without obtaining the working drawings. Any work done without drawings shall be at the contractor's responsibility only. Acceptance for such work will be at the discretion of the Executive Engineer.

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PART 3 – Conditions of Contract and Contract Forms

Section VI - General Conditions of Contract

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Section VI - General Conditions of Contract (GCC)

General Conditions

1.	GENERAL PROVISIONS		
1.1	DEFINITIONS	include S these G expression indication	onditions of Contract ("these Conditions"), which Special Conditions of Contract, Parts A and B, and General Conditions, the following words and ons shall have the meanings stated. Words ag persons or parties include corporations and gal entities, except where the context requires se.
1.1.1	THE CONTRACT	1.1.1.1	"Bill of Quantities" mean the documents so named (if any) which are comprised in the Schedules.
		1.1.1.2	"Contract" means the Contract Agreement, the Letter of Award, the "Work Order", "Letter of Bid" these Conditions, the Specification, the Drawings, the Schedules, and the further documents (if any) which are listed in the Contract Agreement or in the Letter of Award between the Employer and the Contractor.
		1.1.1.3	"Contract Agreement" means the contract agreement referred to in Sub-Clause 1.6 [Contract Agreement].
		1.1.1.4	"Contract Data" means the pages completed by the employer entitled contract data which constitutes Part-A of the Special Conditions of the Contract.
		1.1.1.5	"Drawings" means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Employer in accordance with the Contract.
		1.1.1.6	" Key Dates " means the sheet titled "Key dates" released along with the RFP giving important dates pertaining to Contract like Bid opening and closing date, Pre Bid meeting date, submission date etc.
		1.1.1.7	"Letter of Award" means the letter of formal acceptance, signed by the Employer, indicating formal acceptance of the Most Advantageous Bid and intention of entering into contract with the successful bidder.
		1.1.1.8	"Letter of Bid" means the document entitled letter of bid, which was completed by the Contractor and includes the signed offer to the

		Employer for the Works.
	1.1.1.9	"Letter of Acceptance" means the letter of formal acceptance, signed by the bidder after the receipt of Letter of Award confirming their acceptance.
	1.1.1.10	"Tender" means the Letter of Bid and all other documents which the Contractor submitted with the Letter of Bid, as included in the Contract.
	1.1.1.11	"Schedules" means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Bid, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices.
	1.1.1.12	"Specification" means the document entitled specification, as included in the Contract, and any additions and modifications to the specification in accordance with the Contract. Such document specifies the Works.
	1.1.1.13	"Work Order" means the letter of formal award of work, signed by the Employer given after the signing of the Contract Agreement by both Parties.
1.1.2 PARTIES AND PERSONS	1.1.2.1	The "Adjudicator" is the person appointed jointly by the Employer and the Implementing Agency to resolve disputes in the first instance, as provided for in GCC 20.2 [Appointment of Adjudicator] hereunder.
	1.1.2.2	"Contractor" means the person(s) named as contractor in the Letter of Bid accepted by the Employer and the legal successors in title to this person(s).
	1.1.2.3	"Contractor's Personnel" means the Contractor's Representative and all personnel whom the Contractor utilises on Site, who may include the staff, labour and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.
		Contractor's Personnel includes Key Personnel as named in "Contract Data."
	1.1.2.4	"Contractor's Representative" means the person named by the Contractor in the Contract or appointed from time to time by the Contractor under Sub-Clause 4.3 [Contractor's

		Representative], who acts on behalf of the Contractor.
	1.1.2.5	"Employer" means the person named as employer in the Contract Data and the legal successors in title to this person.
	1.1.2.6	"Employer's Personnel" means the Engineer, the assistants referred to in Sub-Clause 3.2 [Delegation by the Engineer] and all other staff, labour and other employees of the Engineer and of the Employer; and any other personnel notified to the Contractor, by the Employer or the Engineer, as Employer's Personnel.
	1.1.2.7	"Engineer" means the person appointed by the Employer to act as the Engineer for the purposes of the Contract and named in the Contract Data, or other person appointed from time to time by the Employer.
	1.1.2.8	"GoAP" means Government of Andhra Pradesh.
	1.1.2.9	"Subcontractor" means any person named in the Contract as a subcontractor, or any person appointed as a subcontractor, for a part of the Works; and the legal successors in title to each of these persons.
	1.1.2.10	"Party" means the Employer or the Contractor, as the context requires.
	1.1.2.11	"PMC" means Project Management Consultant as appointed by the Employer to oversee policy, design, implementation of the works as the case may be.
1.1.3 Dates, Tests, Periods and Completion	1.1.3.1	"Base Date" means the date 14 days prior to the latest date for submission of the Tender.
	1.1.3.2	"Commencement Date" means the date notified under Sub-Clause 8.1 [Commencement of Works].
	1.1.3.3	"Completion" means the new facility/ work as defined in the Scope of work completed in accordance with the Specifications/ Scope of Work as given in Section V and the Contractor is entitled to have Completion Certificate issued from the Employer
	1.1.3.4	"Completion Certificate" means certificate issued by the Employer on successful completion
		of "Tests on Completion"

		365 days.
	1.1.3.6	"Defects Liability Period" means the period for notifying defects in the Works or a Section (as the case may be) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends to 1 years except if otherwise stated in the Contract Data (with any extension under Sub-Clause 11.3 [Extension of Defects Liability Period]), calculated from the date on which the Works or Section is completed as certified under Sub-Clause 10.1 [Taking Over of the Works and Sections].
	1.1.3.7	"Performance certificate" means the certificate issued under sub-clause 11.7 [performance certificate].
	1.1.3.8	"Taking-Over Certificate" means a certificate issued under Clause 10 [Employer's Taking Over].
	1.1.3.9	"Tests after Completion" means the tests (if any) which are specified in the Contract and which are carried out in accordance with the Specification after the Works or a Section (as the case may be) are taken over by the Employer.
	1.1.3.10	"Time for Completion" means the time for completing the Works or a Section (as the case may be) under Sub-Clause 8.2 [Time for Completion], as stated in the Contract Data (with any extension under Sub-Clause 8.4 [Extension of Time for Completion]), calculated from the Commencement Date.
	1.1.3.11	"Tests on Completion" means the tests which are specified in the Contract or agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (as the case may be) are taken over by the Employer.
1.1.4 MONEY AND PAYMENTS	1.1.4.1	"Accepted Contract Amount" means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.
	1.1.4.2	"Contract Price" means the price defined in Sub- Clause 14.1 [The Contract Price], and includes adjustments in accordance with the Contract.
	1.1.4.3	"Cost" means all expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

	1.1.4.4	"Final Payment Certificate" means the payment certificate issued under Sub-Clause 14.11 [Issue of Final Payment Certificate].
	1.1.4.5	"Final Statement" means the statement defined in Sub-Clause 14.9 [Application for Final Payment Certificate].
	1.1.4.6	"Interim Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment], other than the Final Payment Certificate.
	1.1.4.7	"Local Currency" means the currency of the Country.
	1.1.4.8	"Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment].
	1.1.4.10	"Provisional Sum" means a sum (if any) which is specified in the Contract as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services.
	1.1.4.11	"Retention Money" means the accumulated retention moneys which the Employer retains under Sub-Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.7 [Payment of Retention Money].
	1.1.4.12	"Statement" means a statement submitted by the Contractor as part of an application, under Clause 14 [Contract Price and Payment], for a payment certificate.
1.1.5 WORKS AND GOODS	1.1.5.1	"Approval/ Approved" shall mean and include documents checked, vetted and approved by the Employer
	1.1.5.2	"BIS/ Bureau of Indian Standards" means the statutory regulatory authority responsible for fixing standards and whenever it is referred in the contract it shall imply reference to the latest version of the standard.
	1.1.5.3	"Contractor's Equipment" means all apparatus, machinery, vehicles and other things required for the execution and completion of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Employer's Equipment (if any), Plant, Materials and any other things intended to form or forming part of the Permanent Works.

	1.1.5.4	"Goods" means Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.
	1.1.5.5	"Materials" means things of all kinds (other than Plant) intended to form or forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.
	1.1.5.6	"Permanent Works" means the permanent works to be executed by the Contractor under the Contract.
	1.1.5.7 "	Plant " means the apparatus, machinery and other equipment intended to form or forming part of the Permanent Works, including vehicles purchased for the Employer and relating to the construction or operation of the Works.
	1.1.5.8	"Section" means a part of the Works specified in the Contract Data as a Section (if any).
	1.1.5.9	"Temporary Works" means all temporary works of every kind (other than Contractor's Equipment) required on Site for the execution and completion of the Permanent Works and the remedying of any defects.
	1.1.5.10	"Works" mean the Permanent Works and the Temporary Works, or either of them as appropriate.
1.1.6 OTHER DEFINITIONS	1.1.6.1	"Contractor's Documents" means the calculations, computer programs and other software, drawings, manuals, models and other documents of a technical nature (if any) supplied by the Contractor under the Contract.
	1.1.6.2	"Employer's Equipment" means the apparatus, machinery and vehicles (if any) made available by the Employer for the use of the Contractor in the execution of the Works, as stated in the Specification; but does not include Plant which has not been taken over by the Employer.
	1.1.6.3	"Force Majeure" is defined in Clause 19 [Force Majeure].
	1.1.6.4	"Laws" means all national (or state) legislation, statutes, ordinances and other laws, and regulations and by-laws of any legally constituted public authority.
	1.1.6.5	"Notice of Dissatisfaction" means the notice

		given by either Party to the other under Sub- Clause 20.3 [Obtaining Adjudicator's Decision] indicating its dissatisfaction and intention to commence arbitration
	1.1.6.6	"Performance Security" means the security (or securities, if any) under Sub-Clause 4.2 [Performance Security].
	1.1.6.7	"Site" means the places where the Permanent Works are to be executed, including storage and working areas, and to which Plant and Materials are to be delivered, and any other places as may be specified in the Contract as forming part of the Site.
	1.1.6.8	"Unforeseeable" means not reasonably foreseeable by an experienced contractor by the Base Date.
	1.1.6.9	"Variation" means any change to the Works, which is instructed or approved as a variation under Clause 13 [Variations and Adjustments].
1.2 INTERPRETATION	In the otherwis	Contract, except where the context requires se:
	(a) wo	ords indicating one gender include all genders;
	an	ords indicating the singular also include the plural d words indicating the plural also include the agular;
	"a	ovisions including the word "agree", "agreed" or greement" require the agreement to be recorded writing;
	wr	ritten" or "in writing" means hand-written, type- ritten, printed or electronically made, and resulting a permanent record; and
	"te	e word "tender" is synonymous with "bid" and enderer" with "bidder" and the words "tender cuments" with "bidding documents."
		ginal words and other headings shall not be taken onsideration in the interpretation of these ons.
1.3 COMMUNICATIONS	of app	er these Conditions provide for the giving or issuing rovals, certificates, consents, determinations, requests and discharges, these communications
		writing and delivered by hand (against receipt), nt by mail or courier, or transmitted using any of

the agreed systems of electronic transmission as stated in the Contract Data; and (b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Contract Data. However: if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and (ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued. Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Engineer or the other Party, as the case may be. 1.4 LAW AND LANGUAGE The Contract shall be governed by the laws of Union of India. ■ Indian Contract Act,1872 ■ Sale of Goods Act, 1930 The Arbitration and Conciliation Act, 1996 The ruling language of the Contract shall be English 1.5 The documents forming the Contract are to be taken as **PRIORITY OF DOCUMENTS** mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence: (a) the Contract Agreement, the Work Order (b) the Letter of Acceptance, (c) (d) the Letter of Award, (e) the Letter of Bid, (f) the Special Conditions of Contract - Part A, the Special Conditions of Contract – Part B (h) these General Conditions (i) the Specification, (j) the Drawings, and (k) the Schedules and any other documents forming part

	of the Contract.
	If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.
1.6 CONTRACT AGREEMENT	The Parties shall enter into a Contract Agreement within 10 days after the Contractor receives the Letter of Award unless the Special Conditions of Contract establish otherwise. The Contract Agreement shall be based upon the form annexed to the Special Conditions of Contract. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Successful Bidder.
1.7 ASSIGNMENT	Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract.
1.8 CARE AND SUPPLY OF DOCUMENTS	The Specification and Drawings shall be in the custody and care of the Employer. Unless otherwise stated in the Contract, two copies 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.
	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.
	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.
	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.
1.9 DELAYED DRAWINGS OR INSTRUCTIONS	The Contractor shall give notice to the Engineer whenever the Works are likely to be delayed or disrupted if any necessary drawing or instruction is not issued to the Contractor within a particular time, which shall be reasonable. The notice shall include details of the necessary drawing or instruction, details of why and by when it should be issued, and the nature and amount of the delay or disruption likely to be suffered if it is late.

1.10 EMPLOYER'S USE OF CONTRACTOR'S DOCUMENTS	As between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor.
	The Contractor shall be deemed (by signing the Contract) to give to the Employer a non-terminable transferable non-exclusive royalty-free licence to copy, use and communicate the Contractor's Documents, including making and using modifications of them. This licence shall apply throughout the actual or intended working life (whichever is longer) of the relevant parts of the Works
1.11 CONTRACTOR'S USE OF EMPLOYER'S DOCUMENTS	As between the Parties, the Employer shall retain the copyright and other intellectual property rights in the Specification, the Drawings and other documents made by (or on behalf of) the Employer. The Contractor may, at his cost, copy, use, and obtain communication of these documents for the purposes of the Contract. They shall not, without the Employer's consent, be copied, used or communicated to a third party by the Contractor, except as necessary for the purposes of the Contract.
1.12 CONFIDENTIAL DETAILS	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 compliance with the Contract and allow its proper implementation.
	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.
1.13 COMPLIANCE WITH LAWS	The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Special Conditions of Contract the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the Laws in relation to the execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Employer harmless against and from the consequences of any failure to do so, unless the Contractor is impeded to accomplish these actions and shows evidence of its diligence.
1.14 JOINT AND SEVERAL	If the Contractor constitutes (under applicable Laws) a joint

LIABILITIES venture, consortium or other unincorporated grouping of two or more persons: these persons shall be deemed to be jointly and severally liable to the Employer for the performance of the Contract; these persons shall notify the Employer of their leader who shall have authority to bind the Contractor and each of these persons; and the Contractor shall not alter its composition or legal (c) status without the prior consent of the Employer. 2. THE EMPLOYER 2.1 **RIGHT OF ACCESS TO THE SITE** The Employer shall give the Contractor right of access to, and possession of, all parts of the Site within reasonable times to enable the contractor to proceed without disruption execution of the Work. The right and possession may not be exclusive to the Contractor. If, under the Contract, the Employer is required to give (to the Contractor) possession of any foundation, structure, plant or means of access, the Employer shall do so in the time and manner stated in the Specification. However, the Employer may withhold any such right or possession until the Performance Security has been received. The Employer shall provide, at the request of the 2.2 PERMITS, LICENSES OR **APPROVALS** Contractor, such reasonable assistance as to allow the Contractor to obtain properly any permits, licenses or approvals required by the Laws of the Country: which the Contractor is required to obtain (i) under Sub-Clause 1.13 [Compliance with Laws], (ii) for the delivery of Goods, including clearance through customs, The Contract price shall include all transportation charges and other expenses that may be incurred in this connection. 2.3 **EMPLOYER'S PERSONNEL** The Employer shall be responsible for ensuring that the Employer's Personnel and the Employer's other contractors on the Site: (a) co-operate with the Contractor's efforts under Sub-Clause 4.6 [Co-operation], and (b) Take actions similar to those which the Contractor is required to take under sub-paragraphs (a), (b) and (c) of Sub-Clause 4.8 [Safety Procedures] and under Sub-Clause 4.18 [Protection of the Environment].

2.4 EMPLOYER'S CLAIMS

If the Employer considers himself to be entitled to any payment under any Clause of these Conditions or otherwise in connection with the Contract, and/or to any extension of the Defects Liability Period, the Employer or the Engineer shall give notice and particulars to the Contractor. However, notice is not required for payments due under Sub-Clause 4.19 [Electricity, Water and Gas], under Sub-Clause 4.20 [Employer's Equipment and Free-Issue Materials], or for other services requested by the Contractor.

The notice shall be given as soon as practicable and no longer than 28 days after the Employer became aware, or should have become aware, of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Liability Period shall be given before the expiry of such period.

This amount may be included as a deduction in the Contract Price and Payment Certificates. The Employer shall only be entitled to set off against or make any deduction from an amount certified in a Payment Certificate, or to otherwise claim against the Contractor, in accordance with this Sub-Clause.

3. THE ENGINEER

3.1 Engineer's Duties and Authority

The Employer shall appoint the Engineer who shall carry out the duties assigned to him in the Contract. The Engineer's staff shall include suitably qualified engineers and other professionals who are competent to carry out these duties.

The Engineer shall have no authority to amend the Contract.

The Engineer may exercise the authority attributable to the Engineer as specified in or necessarily to be implied from the Contract. If the Engineer is required to obtain the approval of the Employer before exercising a specified authority, the requirements shall be as stated in the Special Conditions of Contract. The Employer shall promptly inform the Contractor of any change to the authority attributed to the Engineer.

However, whenever the Engineer exercises a specified authority for which the Employer's approval is required, then (for the purposes of the Contract) the Employer shall be deemed to have given approval.

Except as otherwise stated in these Conditions:

 (a) whenever carrying out duties or exercising authority, specified in or implied by the Contract, the Engineer shall be deemed to act for the Employer;

- (b) the Engineer has no authority to relieve either Party of any duties, obligations or responsibilities under the Contract;
- (c) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Engineer (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, including responsibility for errors, omissions, discrepancies and non-compliances; and
- (d) any act by the Engineer in response to a Contractor's request except as otherwise expressly specified shall be notified in writing to the Contractor within 28 days of receipt.

The following provisions shall apply:

The Engineer shall obtain the specific approval of the Employer before taking action under the-following Sub-Clauses of these Conditions:

- (a) Sub-Clause 4.12: agreeing or determining an extension of time and/or additional cost.
- (b) Sub-Clause 13.1: instructing a Variation,
- (c) Sub-Clause 13.2: Approving a proposal for Variation submitted by the Contractor in accordance with Sub Clause 13.1

Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.

3.2 DELEGATION BY THE ENGINEER

The Engineer may from time to time assign duties and delegate authority to assistants, and may also revoke such assignment or delegation. These assistants may include a resident engineer, and/or independent inspectors appointed to inspect and/or test items of Plant and/or Materials. The assignment, delegation or revocation shall be in writing and shall not take effect until copies have been

received by both Parties. However, unless otherwise agreed by both Parties, the Engineer shall not delegate the authority to determine any matter in accordance with Sub-Clause 3.5 [Determinations].

Each assistant, to whom duties have been assigned or authority has been delegated, shall only be authorised to issue instructions to the Contractor to the extent defined by the delegation. Any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by an assistant, in accordance with the delegation, shall have the same effect as though the act had been an act of the Engineer. However:

- (a) any failure to disapprove any work, Plant or Materials shall not constitute approval, and shall therefore not prejudice the right of the Engineer to reject the work, Plant or Materials;
- (b) if the Contractor questions any determination or instruction of an assistant, the Contractor may refer the matter to the Engineer, who shall promptly confirm, reverse or vary the determination or instruction.

3.3 INSTRUCTIONS OF THE ENGINEER

The Engineer may issue to the Contractor (at any time) instructions and additional or modified Drawings which may be necessary for the execution of the Works and the remedying of any defects, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer, or from an assistant to whom the appropriate authority has been delegated under this Clause. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.

The Contractor shall comply with the instructions given by the Engineer or delegated assistant, on any matter related to the Contract. Whenever practicable, their instructions shall be given in writing.

3.4 REPLACEMENT OF THE ENGINEER

If the Employer intends to replace the Engineer, the Employer shall have the right to replace the Engineer

3.5 DETERMINATIONS

Whenever these Conditions provide that the Engineer shall proceed in accordance with this Sub-Clause 3.5 to agree or determine any matter, the Engineer shall consult with each Party in an endeavour to reach agreement. If agreement is not achieved, the Engineer shall make a fair determination in accordance with the Contract, taking due regard of all relevant circumstances.

The determination arrived by the Engineer shall be final and binding unless and until revised under Clause 20 [Claims,

Disputes and Arbitration].

4. THE CONTRACTOR

4.1 CONTRACTOR'S GENERAL OBLIGATIONS

The Contractor shall design (to the extent specified in the Contract), execute and complete the Works in accordance with the Contract and with the Engineer's instructions, and shall remedy any defects in the Works.

The Contractor shall provide the Plant and Contractor's Documents specified in the Contract, and all Contractor's Personnel, Goods, consumables and other things and services, whether of a temporary or permanent nature, required in and for this design, execution, completion and remedying of defects.

The Contractor shall be responsible for the adequacy, stability and safety of all Site operations and of all methods of construction. Except to the extent specified in the Contract, the Contractor (i) shall be responsible for all Contractor's Documents, Temporary Works, and such design of each item of Plant and Materials as is required for the item to be in accordance with the Contract, and (ii) shall not otherwise be responsible for the design or specification of the Permanent Works.

Prior to the commencement of the Tests on Completion, the Contractor shall submit to the Engineer the "as-built" documents and, if applicable, operation and maintenance manuals in accordance with the Specification and in sufficient detail for the Employer to operate, maintain, dismantle, reassemble, adjust and repair this part of the Works. Such part shall not be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until these documents and manuals have been submitted to the Engineer.

4.2 Performance Security

The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the Contract Data and denominated in the currency (ies) of the Contract. If an amount is not stated in the Contract Data, this Sub-Clause shall not apply.

The Contractor shall deliver the Performance Security to the Employer within 10 days after receiving the Letter of Award, and shall send a copy to the Engineer.

The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects. If the terms of the Performance Security specify its expiry date, and the Contractor has not become entitled to receive the

Performance Certificate by the date 28 days prior to the expiry date, the Contractor shall extend the validity of the Performance Security until the Works have been completed and any defects have been remedied.

The Employer shall return the Performance Security to the Contractor within 21 days after receiving a copy of the Performance Certificate.

Without limitation to the provisions of the rest of this Sub-Clause, whenever the Engineer determines an addition to the Contract Price as a result of a change in cost and/or legislation, or as a result of a Variation, amounting to more than 15 percent of the portion of the Contract Price payable in a specific currency, the Contractor shall at the Engineer's request promptly increase, the value of the Performance Security in that currency by an equal percentage.

4.3 CONTRACTOR'S REPRESENTATIVE

The Contractor shall appoint the Contractor's Representative and shall give him all authority necessary to act on the Contractor's behalf under the Contract.

Unless the Contractor's Representative is named in the Contract, the Contractor shall, prior to the Commencement Date, submit to the Engineer for consent the name and particulars of the person the Contractor proposes to appoint as Contractor's Representative. If consent is withheld or subsequently revoked in terms of Sub-Clause 6.9 [Contractor's Personnel], or if the appointed person fails to act as Contractor's Representative, the Contractor shall similarly submit the name and particulars of another suitable person for such appointment.

The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint a replacement.

The whole time of the Contractor's Representative shall be given to directing the Contractor's performance of the Contract. If the Contractor's Representative is to be temporarily absent from the Site during the execution of the Works, a suitable replacement person shall be appointed, subject to the Engineer's prior consent, and the Engineer shall be notified accordingly.

The Contractor's Representative shall, on behalf of the Contractor, receive instructions under Sub-Clause 3.3 [Instructions of the Engineer].

The Contractor's Representative may delegate any powers, functions and authority to any competent person, and may at any time revoke the delegation. Any delegation or revocation shall not take effect until the Engineer has received prior notice signed by the Contractor's

		Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.	
4.4	SUBCONTRACTORS	The Contractor shall not subcontract the Works.	
		The Contractor shall be responsible for the acts or defaults of any Subcontractor, his agents or employees, as if they were the acts or defaults of the Contractor. Unless otherwise stated in the Special Conditions of Contract:	
		(a) the Contractor shall not be required to obtain consent to suppliers solely of Materials, or to a subcontract for which the Subcontractor is named in the Contract;	
		(b) the prior consent of the Engineer shall be obtained to other proposed Subcontractors;	
		(c) each subcontract shall include provisions which would entitle the Employer to require the subcontract to be assigned to the Employer under Sub-Clause 4.5 [Assignment of Benefit of Subcontract] (if or when applicable) or in the event of termination under Sub-Clause 15.2 [Termination by Employer].	
		The Contractor shall ensure that the requirements imposed on the Contractor by Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.	
4.5 A	Assignment of Benefit of ITRACT	If a Subcontractor's obligations extend beyond the expiry date of the relevant Defects Liability Period and the Engineer, prior to this date, instructs the Contractor to assign the benefit of such obligations to the Employer, then the Contractor shall do so.	
4.6	CO-OPERATION	The Contractor shall, as specified in the Contract or as instructed by the Engineer, allow appropriate opportunities for carrying out work to:	
		(a) the Employer's Personnel,	
		(b) any other contractors employed by the Employer, and	
		(c) the personnel of any legally constituted public authorities,	
		who may be employed in the execution on or near the Site of any work not included in the Contract.	
4.7	SETTING OUT	The Contractor shall set out the Works in relation to original points, lines and levels of reference specified in the Contract or notified by the Engineer. The Contractor shall be responsible for the correct positioning of all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works.	

4.8 **SAFETY PROCEDURES** The Contractor shall: comply with all applicable safety regulations, (b) take care for the safety of all persons entitled to be on the Site, (c) use reasonable efforts to keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons, (d) provide fencing, lighting, guarding and watching of the Works until completion and taking over under Clause 10 [Employer's Taking Over], and provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land. 4.9 The Contractor shall institute a quality assurance system to **QUALITY ASSURANCE** demonstrate compliance with the requirements of the Contract. The system shall be in accordance with the details stated in the Contract. The Engineer shall be entitled to audit any aspect of the system. Details of all procedures and compliance documents shall be submitted to the Engineer for information before each design and execution stage is commenced. When any document of a technical nature is issued to the Engineer, evidence of the prior approval by the Contractor himself shall be apparent on the document itself. Compliance with the quality assurance system shall not relieve the Contractor of any of his duties, obligations or responsibilities under the Contract. 4.10 SITE DATA To the extent which was practicable (taking account of cost and time), the Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works. To the same extent, the Contractor shall be deemed to have inspected and examined the Site, its surroundings, the above data and other available

limitation):

conditions,

(a)

(b)

information, and to have been satisfied before submitting the Tender as to all relevant matters, including (without

the hydrological and climatic conditions,

the form and nature of the Site, including sub-surface

the extent and nature of the work and Goods

	necessary for the execution and completion of the Works and the remedying of any defects,	
	(d) the applicable Laws of Country.	
	(e) the Contractor's requirements for access, accommodation, facilities, personnel, power, transport, water and other services.	
4.11 SUFFICIENCY OF THE ACCEPTED	The Contractor shall be deemed to:	
CONTRACT AMOUNT	(a) have satisfied himself as to the correctness and sufficiency of the Accepted Contract Amount, and	
	(b) have based the Accepted Contract Amount on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant matters referred to in Sub-Clause 4.10 [Site Data].	
	Unless otherwise stated in the Contract, the Accepted Contract Amount covers all the Contractor's obligations under the Contract and all things necessary for the proper execution and completion of the Works and the remedying of any defects.	
4.12 UNFORESEEABLE PHYSICAL CONDITIONS	In this Sub-Clause, "physical conditions" means natural physical conditions and man-made and other physical obstructions and pollutants, which the Contractor encounters at the Site when executing the Works, including sub-surface and hydrological conditions but excluding climatic conditions.	
	If the Contractor encounters adverse physical conditions which he considers to have been Unforeseeable, the Contractor shall give notice to the Engineer as soon as practicable.	
4.13 RIGHTS OF WAY AND FACILITIES	Unless otherwise specified in the Contract the Employer shall provide effective access to and possession of the Site including special and/or temporary rights-of-way which are necessary for the Works. The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities outside the Site which he may require for the purposes of the Works.	

The Contractor shall not interfere unnecessarily or 4.14 AVOIDANCE OF INTERFERENCE improperly with: (a) the convenience of the public, or (b) the access to and use and occupation of all roads and footpaths, irrespective of whether they are public or in the possession of the Employer or of others. The Contractor shall indemnify and hold the Employer harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from any such unnecessary or improper interference. 4.15 ACCESS ROUTE The Contractor shall be deemed to have been satisfied as to the suitability and availability of access routes to the Site at Base Date. The Contractor shall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the Contractor's Personnel. These efforts shall include the proper use of appropriate vehicles and routes. Except as otherwise stated in these Conditions: the Contractor shall (as between the Parties) be responsible for any maintenance which may be required for his use of access routes; the Contractor shall provide all necessary signs or directions along access routes, and shall obtain any permission which may be required from the relevant authorities for his use of routes, signs and directions; the Employer shall not be responsible for any claims which may arise from the use or otherwise of any access route; the Employer does not guarantee the suitability or availability of particular access routes; and Costs due to non-suitability or non-availability, for the use required by the Contractor, of access routes shall be borne by the Contractor. 4.16 TRANSPORT OF GOODS Unless otherwise stated in the Special Conditions of Contract: the Contractor shall give the Engineer not less than 21 days' notice of the date on which any Plant or a major item of other Goods will be delivered to the Site; the Contractor shall be responsible for packing, (b) loading, transporting, receiving, unloading, storing and protecting all Goods and other things required for the Works; and

	(c) the Contractor shall indemnify and hold the Employer harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from the transport of Goods, and shall negotiate and pay all claims arising from their transport.
4.17 CONTRACTOR'S EQUIPMENT	The Contractor shall be responsible for all Contractor's Equipment. When brought on to the Site, Contractor's Equipment shall be deemed to be exclusively intended for the execution of the Works. The Contractor shall not remove from the Site any major items of Contractor's Equipment without the consent of the Engineer. However, consent shall not be required for vehicles transporting Goods or Contractor's Personnel off Site.
4.18 PROTECTION OF THE ENVIRONMENT	The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.
4.19 ELECTRICITY AND WATER	Unless otherwise stated in Special Conditions of Contract, the Contractor shall, be responsible for the provision of all power, water and other services he may require for his construction activities and to the extent defined in the Specifications, for the tests.
4.20 EMPLOYER'S FREE-ISSUE MATERIALS	The Employer shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the Specification. The Employer shall, at his risk and cost, provide these materials at the time and place specified in the Contract. The Contractor shall then visually inspect them, and shall promptly give notice to the Engineer of any shortage, defect or default in these materials.
	After this visual inspection, the free-issue materials shall come under the care, custody and control of the Contractor.
4.21 PROGRESS REPORTS	Unless otherwise stated in the Special Conditions of Contract, monthly progress reports shall be prepared by the Contractor and submitted to the Engineer in six copies. The first report shall cover the period up to the end of the first calendar month following the Commencement Date. Reports shall be submitted monthly thereafter, each within 7 days after the last day of the period to which it relates.
	Reporting shall continue until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works.
	Each report shall include:
	(a) charts and detailed descriptions of progress, including each stage of design (if any), Contractor's Documents,

procurement, manufacture, delivery Site, construction, erection and testing; and including these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]), (b) photographs showing the status of manufacture and of progress on the Site; the details described in Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment]; (d) copies of quality assurance documents, test results and certificates of Materials; list of notices given under Sub-Clause 2.4 [Employer's Claims] and notices given under Sub-Clause 20.1 [Contractor's Claims]; (f) safety statistics, including details of any hazardous incidents and activities relating to environmental aspects and public relations; and (g) Comparisons of actual and planned progress, with details of any events or circumstances which may jeopardise the completion in accordance with the Contract, and the measures being (or to be) adopted to overcome delays. 4.22 SECURITY OF THE SITE The Contractor will be responsible for safety and security of all authorised persons available on site. No unauthorized personnel shall be available on site 4.23 CONTRACTOR'S OPERATIONS The Contractor shall confine his operations to the Site, and to ON SITE any additional areas which may be obtained by the Contractor and agreed by the Engineer as additional working areas. The Contractor shall take all necessary precautions to keep Contractor's Equipment and Contractor's Personnel within the Site and these additional areas, and to keep them off adjacent land. During the execution of the Works, the Contractor shall keep the Site free from all unnecessary obstruction, and shall store or dispose of any Contractor's Equipment or surplus materials. The Contractor shall clear away and remove from the Site any wreckage, rubbish and Temporary Works which are no longer required. Upon the issue of a Taking-Over Certificate, the Contractor shall clear away and remove, from that part of the Site and Works to which the Taking-Over Certificate refers, all Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works. The Contractor shall leave that part of the Site and the Works in a clean and safe condition.

However, the Contractor may retain on Site, during the

	Defects Liability Period, such Goods as are required for the Contractor to fulfil obligations under the Contract.	
4.24 Fossils	All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the Site shall be placed under the care and authority of the Employer. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.	
	The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer, who shall issue instructions for dealing with it	
5. NOMINATED SUBCONTRACTORS		
5.1 DEFINITION OF "NOMINATED SUBCONTRACTOR"	In the Contract, "nominated Subcontractor" means a Subcontractor who is stated in the Contract as being a nominated Subcontractor	
5.2 PAYMENTS TO NOMINATED SUBCONTRACTORS	Unless otherwise specifically stated in this contract all payments will be made to the Contractor and the Contractor is liable to the Sub contractors for payments they are eligible for the work done.	
	If however a sub-contractor to the Contractor brings to the notice of the Engineer the failure of Contractor to pay eligible sums due to it after receipt of corresponding payments from the Employer by the Contractor, then the Employer may (at his sole discretion) pay, direct to the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed pay subject to evidence given by the subcontractor. The Contractor shall then repay, to the Employer, the amount which the nominated Subcontractor was directly paid by the Employer	
6. STAFF AND LABOUR	6. STAFF AND LABOUR	
6.1 ENGAGEMENT OF STAFF AND LABOUR	Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labour, local or otherwise, and for their payment, feeding, transport, and, appropriate, housing.	
6.2 RATES OF WAGES AND CONDITIONS OF LABOUR	The Contractor shall pay to labour employed by him either directly or through Sub-Contractors wages not less than fair wages as defined in the relevant Central / Local Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act 1970 and the Contract Labour	

	Regulation and Abolition of Central Rules 1971, wherever applicable. He shall also abide by the minimum wages and other regulations applicable to the labour engaged in the Work, as laid down by the concerned Central/local authorities (State, District or other local Authorities.
6.3 PERSONS IN THE SERVICE OF EMPLOYER	The Contractor shall not recruit, or attempt to recruit, staff and labour from amongst the Employer's Personnel.
6.4 LABOUR LAWS	The Contractor shall be wholly and solely responsible for full compliance with the provisions under all labour laws and/or regulations such as Payment of Wages Act 1948, Employees Liability Act 1938, Workmen's Compensation Act 1923, Employees State Insurance Act 1948, Employees Provident Fund Act 1952, Industrial Disputes Act 1947, the Maternity Benefit Act 1961, the Contract Labour (Regulation and Abolition) Act 1970 and the Factories Act 1948 or any modifications thereof or any other law relating thereto and rules there under introduced from time to time.
	The Contractor shall assume liability and shall indemnify the Employer & the Engineer from every expense, liability or payment by reason of the application of any labour law, act, rules or regulations existing or to be introduced at a future date during the term of the Contract.
	In general, in respect of all labour directly or indirectly employed in the Work for the performance of Contractor's part of the Contract, the Contractor shall comply with all the rules framed by the Government authorities concerned from time to time for protection of the health and welfare of the workers.
	The Contractor shall at his own cost obtain a valid licence for himself and the Employer under the Contract Labour (R & A) Act 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971 and under any other applicable rules before the commencement of the Work and continue to have a valid licences until the completion of the Work.
6.5 Working Hours	No work shall be carried out on the Site on locally recognised days of rest, or outside the normal working hours stated in the Contract Data, unless:
	(a) otherwise stated in the Contract,
	(b) the Engineer gives consent, or
	(c) the work is unavoidable, or necessary for the protection of life or property or for the safety of the Works, in which case the Contractor shall immediately

	advise the Engineer.
6.6 FACILITIES FOR STAFF AND LABOUR	Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Employer's Personnel as stated in the Specification.
	The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.
6.7 HEALTH AND SAFETY	The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Employer's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
	The Contractor shall at his own expense arrange for all the safety provisions as listed in (i) Safety codes of C.P.W.D. and Bureau of Indian Standards, (ii) The Electricity Act, (iii) The Mines Act, and Regulations, (iv) Regulations of employment & conditions of service Act 1996, Rules and Orders made there under and such other acts as applicable.
	The Contractor shall appoint an Safety Officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.
	The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Engineer may reasonably require.
6.8 CONTRACTOR'S SUPERINTENDENCE	Throughout the execution of the Works, and as long thereafter as is necessary to fulfil the Contractor's obligations, the Contractor shall provide all necessary superintendence to plan, arrange, direct, manage, inspect and test the work.
6.9 CONTRACTOR'S PERSONNEL	The Contractor's Personnel shall be appropriately qualified,

	skilled and experienced in their respective trades or occupations. The Engineer may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative if applicable, who:
	(a) persists in any misconduct or lack of care,
	(b) carries out duties incompetently or negligently,
	(c) fails to conform with any provisions of the Contract,
	(d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment, or
	(e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works.
	If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.
6.10 RECORDS OF CONTRACTOR'S PERSONNEL AND EQUIPMENT	The Contractor shall submit, to the Engineer, details showing the number of each class of Contractor's Personnel and of each type of Contractor's Equipment on the Site. Details shall be submitted each calendar month, in a form approved by the Engineer, until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works.
6.11 SUPPLY OF WATER	The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.
6.12 PROHIBITION OF CHILD LABOUR	The Contractor shall not employ any children/ child labour below the age of 18 years.
6.13 EMPLOYMENT RECORDS OF WORKERS	The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment].

6.14 CONTRIBUTION TOWARDS EMPLOYEE BENEFITS, FUNDS ETC.

The Contractor shall include in the Contract Price all expenses necessary to meet his obligations for making contributions toward employee benefits funds such as **Employee Provident fund (EPF)**, **Employee State Insurance Scheme (ESI)** benefits, old age pension and/or any other benefits/compensation legally payable in compliance with all the statutory regulations and requirements. All records in this connection shall be properly maintained by the Contractor and produced for scrutiny by the concerned authorities and the Engineer and the Employer when called for.

7. PLANT, MATERIALS AND WORKMANSHIP

7.A DESIGNS BY THE EMPLOYER

The Contractor should carry out the work as per the designs and Good For Construction drawings given by the Employer for all elements of the project. The Employer shall provide the drawings as per the Construction programme of the Contractor.

It is the responsibility of the Contractor to collect the Good for Construction drawings from the Employer by submitting Request for Information (RFI). The Employer shall reply and share the drawings upon the receipt of RFI within 7 days from the day of raising the RFI.

7.1 MANNER OF EXECUTION

The Contractor shall carry out the manufacture of Plant, the production and manufacture of Materials, and all other execution of the Works:

- (a) in the manner (if any) specified in the Contract,
- (b) in a proper workmanlike and careful manner, in accordance with recognised good practice, and
- (c) with properly equipped facilities and non-hazardous Materials, except as otherwise specified in the Contract.

7.2 SAMPLES

The Contractor shall submit samples of materials and relevant information to the Engineer as per Section V

7.3 INSPECTION

The Employer's Personnel shall at all reasonable times:

- (a) have full access to all parts of the Site and to all places from which natural Materials are being obtained, and
- (b) during production, manufacture and construction (at the Site and elsewhere), be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of manufacture of Plant and production and manufacture of Materials.

7	
	The Contractor shall give the Employer's Personnel full opportunity to carry out these activities, including providing access, facilities, permissions and safety equipment. No such activity shall relieve the Contractor from any obligation or responsibility.
	The Contractor shall give notice to the Engineer whenever any work is ready and before it is covered up, put out of sight, or packaged for storage or transport. The Engineer shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Engineer does not require to do so. If the Contractor fails to give the notice, he shall, if and when required by the Engineer, uncover the wo
	rk and thereafter reinstate and make good, all at the Contractor's cost.
7.4 TESTING	This Sub-Clause shall apply to all tests specified in the Contract, other than the Tests after Completion (if any).
	Except as otherwise specified in the Contract, the Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labour, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently.
	The Contractor shall promptly forward to the Engineer duly certified reports of the tests. When the specified tests have been passed, the Engineer shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect.
7.5 REJECTION	If, as a result of an examination, inspection, measurement or testing, any Plant, Materials or workmanship is found to be defective or otherwise not in accordance with the Contract, the Engineer may reject the Plant, Materials or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the Contract.
	If the Engineer requires this Plant, Materials or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If the rejection and retesting cause the Employer to incur additional costs, the Contractor shall subject to Sub-Clause 2.4 [Employer's Claims] pay these costs to the Employer.
7.6 REMEDIAL WORK	Notwithstanding any previous test or certification, the Engineer may instruct the Contractor to:
	(a) remove from the Site and replace any Plant or

	Materials which is not in accordance with the Contract,
	(b) remove and re-execute any other work which is not in accordance with the Contract, and
	(c) execute any work which is urgently required for the safety of the Works, whether because of an accident, unforeseeable event or otherwise.
	The Contractor shall comply with the instruction within a reasonable time, which shall be the time (if any) specified in the instruction, or immediately if urgency is specified under sub-paragraph (c).
	If the Contractor fails to comply with the instruction, the Employer shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for the work, the Contractor shall subject to Sub-Clause 2.4 [Employer's Claims] pay to the Employer all costs arising from this failure.
7.7 OWNERSHIP OF PLANT AND MATERIALS	Except as otherwise provided in the Contract, each item of Plant and Materials shall, to the extent consistent with the Laws of the Country, become the property of the Employer at whichever is the earlier of the following times, free from liens and other encumbrances when it is incorporated in the Works
7.8 ROYALTIES	Unless otherwise stated in the Specification, the Contractor shall pay all royalties, rents and other payments for:
	(a) natural Materials obtained from outside the Site, and
	(b) the disposal of material from demolitions and excavations and of other surplus material (whether natural or man-made), except to the extent that disposal areas within the Site are specified in the Contract.
8. COMMENCEMENT, DELAYS AND	Suspension
8.1 COMMENCEMENT OF WORKS	The commencement of the work will be as per Special Conditions of Contract.
	The Contractor shall commence the execution of the Works as soon as is reasonably practicable after the Commencement Date, and shall then proceed with the Works with due expedition and without delay.
8.2 TIME FOR COMPLETION	The Contractor shall complete the whole of the Works, and each Section (if any), within the Time for Completion for the

Works or Section (as the case may be), including: (a) achieving the passing of the Tests on Completion, and (b) Completing all work which is stated in the Contract as being required for the Works or Section to be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections]. The Time for completion will be as per Special Conditions of Contract. 8.3 **PROGRAMME** The Contractor shall submit a detailed time programme to the Engineer within 28 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include: (a) the order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage of design (if any), Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing, the sequence and timing of inspections and tests specified in the Contract, and a supporting report which includes resource statement to be deployed to achieve the progress of The Contractor shall promptly give notice to the Engineer of specific probable future events or circumstances which may adversely affect the work, increase the Contract Price or delay the execution of the Works. The Engineer may require the Contractor to submit an estimate of the anticipated effect of the future event or circumstances, and/or a proposal under Sub-Clause 13.2 [Variation Procedure]. If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer in accordance with this Sub-Clause. 8.4 **EXTENSION OF TIME FOR** The Contractor shall be entitled subject to Sub-Clause 20.1 **COMPLETION** [Contractor's Claims] to an extension of the Time for Completion if and to the extent that completion for the

purposes of Sub-Clause 10.1 [Taking Over of the Works and Sections] is or will be delayed by any of the following causes:

	Completion has been agreed under Sub-Clause 13.2 [Variation Procedure]) or other substantial change in the quantity of an item of work included in the Contract, (b) exceptionally adverse climatic conditions, If the Contractor considers himself to be entitled to an extension of the Time for Completion, the Contractor shall give notice to the Engineer in accordance with Sub-Clause
	20.1 [Contractor's Claims].
8.5 DELAY DAMAGES	If the Contractor fails to comply with Sub-Clause 8.2 [Time for Completion], the Contractor shall subject to notice under Sub-Clause 2.4 [Employer's Claims] pay delay damages to the Employer for this default. These delay damages shall be the sum stated in the Contract Data, which shall be paid for every day which shall elapse between the relevant Time for Completion and the date stated in the Taking-Over Certificate. However, the total amount due under this Sub-Clause shall not exceed the maximum amount of delay damages (if any) stated in the Contract Data.
	These delay damages shall be the only damages due from the Contractor for such default, other than in the event of termination under Sub-Clause 15.2 [Termination by Employer] prior to completion of the Works. These damages shall not relieve the Contractor from his obligation to complete the Works, or from any other duties, obligations or responsibilities which he may have under the Contract.
8.6 Suspension of Work	The Engineer may at any time instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works against any deterioration, loss or damage.
	The Engineer may also notify the cause for the suspension. If and to the extent that the cause is notified and is the responsibility of the Contractor, then Sub-Clauses 8.7 shall not apply.
8.7 CONSEQUENCES OF SUSPENSION	If the Contractor suffers delay and/or incurs Cost from complying with the Engineer's instructions under Sub-Clause 8.6 [Suspension of Work] and/or from resuming the work, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion] After receiving this notice, the Engineer shall proceed in

		accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
		The Contractor shall not be entitled to an extension of time for, or to payment of the Cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with Sub-Clause 8.6 [Suspension of Work].
8.8	RESUMPTION OF WORK	After the permission or instruction to proceed is given, the Contractor and the Engineer shall jointly examine the Works and the Plant and Materials affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works or Plant or Materials, which has occurred during the suspension after receiving from the Engineer an instruction to this effect.
9.	TESTS ON COMPLETION	
9.1	CONTRACTOR'S OBLIGATIONS	The Contractor shall carry out the Tests on Completion in accordance with this Clause and Sub-Clause 7.4 [Testing], after providing the documents in accordance with subparagraph (d) of Sub-Clause 4.1 [Contractor's General Obligations].
		The Contractor shall give to the Engineer not less than 7 days' notice of the date after which the Contractor will be ready to carry out each of the Tests on Completion. Unless otherwise agreed, Tests on Completion shall be carried out within 7 days after this date, on such day or days as the Engineer shall instruct.
		In considering the results of the Tests on Completion, the Engineer shall make allowances for the effect of any use of the Works by the Employer on the performance or other characteristics of the Works. As soon as the Works, or a Section, have passed any Tests on Completion, the Contractor shall submit a certified report of the results of these Tests to the Engineer.
9.2	DELAYED TESTS	If the Tests on Completion are being unduly delayed by the Contractor, the Engineer may by notice require the Contractor to carry out the Tests within 21 days after receiving the notice. The Contractor shall carry out the Tests on such day or days within that period as the Contractor may fix and of which he shall give notice to the Engineer.
		If the Contractor fails to carry out the Tests on Completion within the period of 21 days, the Employer's Personnel may proceed with the Tests at the risk and cost of the Contractor. The Tests on Completion shall then be deemed to have been carried out in the presence of the Contractor and the results

	of the Tests shall be accepted as accurate.
9.3 RETESTING	If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Engineer or the Contractor may require the failed Tests, and Tests on Completion on any related work, to be repeated under the same terms and conditions.
9.4 FAILURE TO PASS TESTS ON COMPLETION	If the Works, or a Section, fail to pass the Tests on Completion repeated under Sub-Clause 9.3 [Retesting], the Engineer shall be entitled to:
	(a) order further repetition of Tests on Completion under Sub-Clause 9.3;
	(b) if the failure deprives the Employer of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event the Employer shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause 11.4 [Failure to Remedy Defects].
10. EMPLOYER'S TAKING OVER	
10.1 TAKING OVER OF THE WORKS AND SECTIONS	Except as stated in Sub-Clause 9.4 [Failure to Pass Tests on Completion], the Works shall be taken over by the Employer when (i) the Works have been completed in accordance with the Contract, including the matters described in Sub-Clause 8.2 [Time for Completion] and except as allowed in sub-paragraph (a) below, and (ii) a Taking-Over Certificate for the Works has been issued, or is deemed to have been issued in accordance with this Sub-Clause.
	The Contractor may apply by notice to the Engineer for a Taking-Over Certificate not earlier than 14 days before the Works will, in the Contractor's opinion, be complete and ready for taking over. If the Works are divided into Sections, the Contractor may similarly apply for a Taking-Over Certificate for each Section.
	The Engineer shall, within 28 days after receiving the Contractor's application:
	(a) issue the Taking-Over Certificate to the Contractor, stating the date on which the Works or Section were completed in accordance with the Contract or
	(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.
10.2 TAKING OVER OF PARTS OF	The Engineer may, at the sole discretion of the Employer,

	inner a Talina Ovan Cartificate for any most of the
THE WORKS	issue a Taking-Over Certificate for any part of the Permanent Works.
	After the Engineer has issued a Taking-Over Certificate for a part of the Works, the Contractor shall be given the earliest opportunity to take such steps as may be necessary to carry out any outstanding Tests on Completion. The Contractor shall carry out these Tests on Completion as soon as practicable before the expiry date of the relevant Defects Liability Period.
10.3 SURFACES REQUIRING REINSTATEMENT	Except as otherwise stated in a Taking-Over Certificate, a certificate for a Section or part of the Works shall not be deemed to certify completion of any ground or other surfaces requiring reinstatement.
11. DEFECTS LIABILITY	
11.1 COMPLETION OF OUTSTANDING WORK AND REMEDYING DEFECTS	In order that the Works and Contractor's Documents, and each Section, shall be in the condition required by the Contract (fair wear and tear excepted) by the expiry date of the relevant Defects Liability Period or as soon as practicable thereafter, the Contractor shall:
	(a) complete any work which is outstanding on the date stated in a Taking-Over Certificate, within such reasonable time as is instructed by the Engineer, and
	(b) execute all work required to remedy defects or damage, as may be notified by (or on behalf of) the Employer on or before the expiry date of the Defects Liability Period for the Works or Section (as the case may be).
	If a defect appears or damage occurs, the Contractor shall be notified accordingly, by (or on behalf of) the Employer.
11.2 COST OF REMEDYING DEFECTS	All work referred to in sub-paragraph (b) of Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects] shall be executed at the risk and cost of the Contractor.
11.3 EXTENSION OF DEFECTS LIABILITY PERIOD	The Employer shall be entitled subject to Sub-Clause 2.4 [Employer's Claims] to an extension of the Defects Liability Period for the Works or a Section if and to the extent that the Works, Section or a major item of Plant (as the case may be, and after taking over) cannot be used for the purposes for which they are intended by reason of a defect or by reason of damage attributable to the Contractor.
11.4 FAILURE TO REMEDY DEFECTS	If the Contractor fails to remedy any defect or damage within a reasonable time, a date may be fixed by (or on behalf of) the Employer, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of

	this date.
	If the Contractor fails to remedy the defect or damage by this notified date and this remedial work was to be executed at the cost of the Contractor under Sub-Clause 11.2 [Cost of Remedying Defects], the Employer may (at his option):
	(a) carry out the work himself or by others, in a reasonable manner and at the Contractor's cost, but the Contractor shall have no responsibility for this work; and the Contractor shall subject to Sub-Clause 2.4 [Employer's Claims] pay to the Employer the costs reasonably incurred by the Employer in remedying the defect or damage; or
	(b) if the defect or damage deprives the Employer of substantially the whole benefit of the Works or any major part of the Works, terminate the Contract as a whole, or in respect of such major part which cannot be put to the intended use. Without prejudice to any other rights, under the Contract or otherwise, the Employer shall then be entitled to recover all sums paid for the Works or for such part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.
11.5 REMOVAL OF DEFECTIVE WORK	If the defect or damage cannot be remedied expeditiously on the Site and the Employer gives consent, the Contractor may remove from the Site for the purposes of repair such items of Plant as are defective or damaged. This consent may require the Contractor to increase the amount of the Performance Security by the full replacement cost of these items.
11.6 RIGHT OF ACCESS	Until the Performance Certificate has been issued, the Contractor shall have such right of access to the Works as is reasonably required in order to comply with this Clause, except as may be inconsistent with the Employer's reasonable security restrictions.
11.7 PERFORMANCE CERTIFICATE	Performance of the Contractor's obligations shall not be considered to have been completed until the Engineer has issued the Performance Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.
	The Engineer shall issue the Performance Certificate within 28 days after the latest of the expiry dates of the Defects

		Employer.	
		Only the Performance Certificate shall be deemed to constitute acceptance of the Works.	
11.8	Unfulfilled Obligations	After the Performance Certificate has been issued, each Party shall remain liable for the fulfilment of any obligation which remains unperformed at that time. For the purposes of determining the nature and extent of unperformed obligations, the Contract shall be deemed to remain in force.	
11.9	CLEARANCE OF SITE	Upon receiving the Performance Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works from the Site.	
		If all these items have not been removed within 28 days after receipt by the Contractor of the Performance Certificate, the Employer may sell or otherwise dispose of any remaining items. The Employer shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.	
		Any balance of the moneys from the sale shall be paid to the Contractor. If these moneys are less than the Employer's costs, the Contractor shall pay the outstanding balance to the Employer.	
		the Employer.	
12.	MEASUREMENT AND EVALUATIO		
12.1	MEASUREMENT AND EVALUATION WORKS TO BE MEASURED		
		The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.8 [Statement on Completion] and 14.9 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the	
		The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.8 [Statement on Completion] and 14.9 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract. Whenever the Engineer requires any part of the Works to be measured, reasonable notice shall be given to the	
		The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.8 [Statement on Completion] and 14.9 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract. Whenever the Engineer requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall: (a) promptly either attend or send another qualified representative to assist the Engineer in making the	
		The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.8 [Statement on Completion] and 14.9 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract. Whenever the Engineer requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall: (a) promptly either attend or send another qualified representative to assist the Engineer in making the measurement, and	

by Bureau of Indian Standards (IS: 1200) shall be followed. However, if definite methods of measurements are stipulated in the Specifications, then the same shall supersede BIS methods and shall be followed. 12.3 EVALUATION Except as otherwise stated in the Contract, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the Contract Price by evaluating each item of work, applying the measurement agreed or determined in accordance with the above Sub-Clauses 12.1 and 12.2 and the appropriate rate or price for the item. For each item of work, the appropriate rate or price for the item shall be the rate or price specified for such item in the Contract OR, if there is no such item, specified for similar work. Any item of work included in the Bill of Quantities for which no rate or price was specified shall be considered as included in other rates and prices in the Bill of Quantities and will not be paid for separately. However, a new rate or price shall be appropriate for an item of work if: (a) (i) the measured quantity of the item is changed by more than 25% from the quantity of this item in the Bill of Quantities or other Schedule, this change in quantity multiplied by such specified rate for this item exceeds 5% of the Accepted Contract Amount, (iii) this item is not specified in the Contract as a "fixed rate item"; or (b) the work is instructed under Clause 13 (i) [Variations and Adjustments], No rate or price is specified in the Contract for this item, and No specified rate or price is appropriate because the item of work is not of similar character, or is not executed under similar conditions, as any item in the Contract.

Each new rate or price shall be derived from any relevant rates or prices in the Contract, with reasonable adjustments to take account of the matters described in sub-paragraph (a) and/or (b), as applicable. If no rates or prices are relevant for the derivation of a new rate or price, it shall be derived from the reasonable Cost of executing the work, together with profit, taking account of any other relevant matters.

Until such time as an appropriate rate or price is agreed or determined, the Engineer shall determine a provisional rate or price for the purposes of Interim Payment Certificates as soon as the concerned work commences.

13. VARIATIONS AND ADJUSTMENTS

13.1 RIGHT TO VARY

Variations may be initiated by the Engineer at any time prior to issuing the Taking-Over Certificate for the Works, either by an instruction or by a request for the Contractor to submit a proposal.

The Contractor shall execute and be bound by each Variation, unless the Contractor promptly gives notice to the Engineer stating (with supporting particulars) that (i) the Contractor cannot readily obtain the Goods required for the Variation, or (ii) such Variation triggers a substantial change in the sequence or progress of the Works. Upon receiving this notice, the Engineer shall cancel, confirm or vary the instruction.

Each Variation may include:

- (a) changes to the quantities of any item of work included in the Contract (however, such changes do not necessarily constitute a Variation),
- (b) changes to the quality and other characteristics of any item of work,
- (c) changes to the levels, positions and/or dimensions of any part of the Works,
- (a) omission of any work unless it is to be carried out by others,
- (b) any additional work, Plant, Materials or services necessary for the Permanent Works, including any associated Tests on Completion, boreholes and other testing and exploratory work, or
- (c) changes to the sequence or timing of the execution of the Works.

The Contractor shall not make any alteration and/or modification of the Permanent Works, unless and until the Engineer instructs or approves a Variation.

13.2 VARIATION PROCEDURE

If the Engineer requests a proposal, prior to instructing a

Variation, the Contractor shall respond in writing as soon as practicable, either by giving reasons why he cannot comply (if this is the case) or by submitting:

- (a) a description of the proposed work to be performed and a programme for its execution,
- (b) the Contractor's proposal for any necessary modifications to the programme according to Sub-Clause 8.3 [Programme] and to the Time for Completion, and
- (c) the Contractor's proposal for evaluation of the Variation.

The Engineer shall, as soon as practicable after receiving such proposal respond with approval, disapproval or comments. The Contractor shall not delay any work whilst awaiting a response.

Each instruction to execute a Variation, with any requirements for the recording of Costs, shall be issued by the Engineer to the Contractor, who shall acknowledge receipt.

Each Variation shall be evaluated in accordance with Clause 12 [Measurement and Evaluation], unless the Engineer instructs or approves otherwise in accordance with this Clause.

13.3 Adjustments for Changes IN Cost/ Price Adjustment

If this Sub-Clause applies, the amounts payable to the Contractor shall be adjusted for rises or falls in the cost of labour, Goods and other inputs to the Works, by the addition or deduction of the amounts determined by the formulae prescribed in Special Conditions of Contract Section VII

14. CONTRACT PRICE AND PAYMENT

14.1 THE CONTRACT PRICE

Unless otherwise stated in the Special Conditions of Contract:

- (a) the Contract Price shall be agreed or determined under Sub-Clause 12.3 [Evaluation] and be subject to adjustments in accordance with the Contract;
- (b) the Contractor shall pay all statutory taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs
- (c) any quantities which may be set out in the Bill of Quantities or other Schedule are estimated quantities and are not to be taken as the actual and correct quantities:

- (i) of the Works which the Contractor is required to execute, or
- (ii) for the purposes of Clause 12 [Measurement and Evaluation]; and
- (d) the Contractor shall submit to the Engineer, within 28 days after the Commencement Date, a proposed breakdown of each lump sum price in the Schedules. The Engineer may take account of the breakdown when preparing Payment Certificates, but shall not be bound by it.

14.2 MOBILIZATION ADVANCE

The Employer shall make a mobilization advance to the contractor if requested by the Contractor, at an interest rate specified in Contract Data of Special Conditions of Contract towards mobilization and cash flow support, when the Contractor submits a guarantee in accordance with this Sub-Clause. The total advance payment, the number and timing of instalments (if more than one), and the applicable currencies and proportions, shall be as stated in the Contract Data.

Unless and until the Employer receives this guarantee, or if the total Mobilization Advance is not stated in the Contract Data, this Sub-Clause shall not apply.

Unless stated otherwise in the Contract Data, the Mobilization Advance payment shall be repaid through percentage deductions from the interim payments determined by the Engineer in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates]

14.3 APPLICATION FOR INTERIM PAYMENT CERTIFICATES

The Contractor shall submit a Statement in 3 (three) copies to the Engineer after the end of each month, in a form approved by the Engineer, showing in detail the amounts to which the Contractor considers himself to be entitled, together with supporting documents which shall include the report on the progress during this month in accordance with Sub-Clause 4.21 [Progress Reports].

The Statement shall include the following items in the sequence listed:

- (a) the estimated contract value of the Works executed and the Contractor's Documents produced up to the end of the month (including Variations but excluding items described in sub-paragraphs (b) to (g) below);
- (b) any amount to be deducted for advance payment, retention, calculated by applying the percentage of retention stated in the Contract Data to the total of the above amounts, until the amount so retained by the Employer reaches the limit of Retention Money (if

	any) stated in the Contract Data;	
	(c) any other additions or deductions which may have become due under the Contract or otherwise, including those under Clause 20 [Claims, Disputes and Arbitration]; and	
	(d) the deduction of amounts certified in all previous Payment Certificates.	
14.4 SCHEDULE OF PAYMENTS	If the Contract includes a schedule of payments specifying the instalments in which the Contract Price will be paid, then unless otherwise stated in this schedule:	
	(a) the instalments quoted in this schedule of payments shall be the estimated contract values for the purposes of sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates]; and	
	(b) if these instalments are not defined by reference to the actual progress achieved in executing the Works, and if actual progress is found to be less than that on which this schedule of payments was based, then the Engineer may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine revised instalments, which shall take account of the extent to which progress is less than that on which the instalments were previously based.	
14.5 ISSUE OF INTERIM PAYMENT CERTIFICATES	No amount will be certified or paid until the Employer has received and approved the Performance Security. Thereafter, the Engineer shall, within 28 days after receiving a Statement and supporting documents, deliver to the Employer and to the Contractor an Interim Payment Certificate which shall state the amount which the Engineer fairly determines to be due, with all supporting particulars for any reduction or withholding made by the Engineer on the Statement if any.	
	The Engineer may in any Payment Certificate make any correction or modification that should properly be made to any previous Payment Certificate. A Payment Certificate shall not be deemed to indicate the Engineer's acceptance, approval, consent or satisfaction.	
14.6 PAYMENT	The Employer shall pay to the Contractor:	
	(a) the amount certified in each Interim Payment Certificate within 30 days after the Engineer receives the Statement and supporting documents and	
	(b) the amount certified in the Final Payment Certificate within 45 days after the Employer receives this Payment Certificate	

14.7 PAYMENT OF RETENTION MONEY	When the Taking-Over Certificate has been issued for the Works, the first half of the Retention Money shall be certified by the Engineer for payment to the Contractor.	
	Promptly after the latest of the expiry dates of the Defects Liability Periods, the outstanding balance of the Retention Money shall be certified by the Engineer for payment to the Contractor.	
	However, if any work remains to be executed under Clause 11 [Defects Liability], the Engineer shall be entitled to withhold certification of the estimated cost of this work until it has been executed.	
14.8 STATEMENT AT COMPLETION	Unless given more specifically in the Special Conditions of the Contract, the Contractor within 30 days after receiving the Taking-Over Certificate for the Works, the Contractor shall submit to the Engineer three copies of a Statement at completion with supporting documents, in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates], showing the value of all work done in accordance with the Contract up to the date stated in the Taking-Over Certificate for the Works	
14.9 APPLICATION FOR FINAL PAYMENT CERTIFICATE	Within 60 days after receiving the Performance Certificate, the Contractor shall submit, to the Engineer, three copies of a draft final statement with supporting documents showing in detail in a form approved by the Engineerthe value of all work done in accordance with the Contract, and	
	If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer may reasonably require within 28 days from receipt of said draft and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Engineer the final statement as agreed. This agreed statement is referred to in these Conditions as the "Final Statement".	
14.10 DISCHARGE	When submitting the Final Statement, the Contractor shall submit a discharge which confirms that the total of the Final Statement represents full and final settlement of all moneys due to the Contractor under or in connection with the Contract.	
14.11 ISSUE OF FINAL PAYMENT CERTIFICATE	Within 28 days after receiving the Final Statement and discharge in accordance with Sub-Clause 14.9 [Application for Final Payment Certificate] and Sub-Clause 14.10 [Discharge], the Engineer shall deliver, to the Employer and to the Contractor, the Final Payment Certificate which shall state:	

(a) the amount which he fairly determines is finally due, and (b) after giving credit to the Employer for all amounts previously paid by the Employer and for all sums to which the Employer is entitled, the balance (if any) due from the Employer to the Contractor or from the Contractor to the Employer, as the case may be. If the Contractor has not applied for a Final Payment Certificate in accordance with Sub-Clause 14.9 [Application for Final Payment Certificate and Sub-Clause 14.10 [Discharge], the Engineer shall request the Contractor to do so. If the Contractor fails to submit an application within a period of 28 days, the Engineer shall issue the Final Payment Certificate for such amount as he fairly determines to be due. 14.12 CESSATION OF EMPLOYER'S The Employer shall not be liable to the Contractor for any LIABILITY matter or thing under or in connection with the Contract or execution of the Works, except to the extent that the Contractor shall have included an amount expressly for it in the Final Statement. 15. **TERMINATION BY EMPLOYER** 15.1 NOTICE TO CORRECT If the Contractor fails to carry out any obligation under the Contract, the Engineer may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time. 15.2 TERMINATION BY EMPLOYER The Employer shall be entitled to terminate the Contract if the Contractor: fails to comply with Sub-Clause 4.2 [Performance (a) Security] or with a notice under Sub-Clause 15.1 [Notice to Correct], (b) abandons the Works otherwise or plainly demonstrates the intention not to continue performance of his obligations under the Contract, subcontracts the whole of the Works or assigns the Contract without the required agreement, becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, gives or offers to give (directly or indirectly) to any (e) person any bribe, gift, gratuity, commission or other thing of value, as an inducement or reward:

TO SUSPEND WORK

(i) for doing or forbearing to do any action in relation to the Contract, or for showing or forbearing to show favour or disfavour to any person in relation to the Contract, In any of these events or circumstances, the Employer may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub-paragraph (e), the Employer may by notice terminate the Contract immediately. The Employer's election to terminate the Contract shall not prejudice any other rights of the Employer, under the Contract or otherwise. The Contractor shall then leave the Site and deliver any required Goods, all Contractor's Documents, and other design documents made by or for him, to the Engineer. 15.3 VALUATION AT DATE OF As soon as practicable after a notice of termination under **TERMINATION** Sub-Clause 15.2 [Termination by Employer] has taken effect, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the Contractor for work executed in accordance with the Contract. 15.4 PAYMENT AFTER TERMINATION After a notice of termination under Sub-Clause 15.2 [Termination by Employer] has taken effect, the Employer may: (a) proceed in accordance with Sub-Clause 2.4 [Employer's Claims], (b) withhold further payments to the Contractor until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Employer, have been established, and/or recover from the Contractor any losses and damages incurred by the Employer and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the Contractor. 16. SUSPENSION AND TERMINATION BY CONTRACTOR 16.1 CONTRACTOR'S ENTITLEMENT If the Engineer fails to certify in accordance with Sub-Clause

14.5 [Issue of Interim Payment Certificates] or Sub-Clause 14.6

[Payment], the Contractor may, after giving not less than 21 days' notice to the Employer, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment Certificate, reasonable evidence or payment, as the case may be and as described in the notice.

If the Contractor subsequently receives such Payment Certificate, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.

16.2 TERMINATION BY CONTRACTOR

The Contractor shall be entitled to terminate the Contract if:

- a. the Engineer fails, within 56 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,
- the Contractor does not receive the amount due under an Interim Payment Certificate within 42 days after the expiry of the time stated in Sub-Clause 14.6 [Payment] within which payment is to be made (except for deductions in accordance with Sub-Clause 2.4 [Employer's Claims]),
- c. the Employer substantially fails to perform his obligations under the Contract in such manner as to materially and adversely affect the economic balance of the Contract and/or the ability of the Contractor to perform the Contract,
- d. the Employer fails to comply with Sub-Clause 1.6 [Contract Agreement] or Sub-Clause 1.7 [Assignment]

In any of these events or circumstances, the Contractor may, upon giving 14 days' notice to the Employer, terminate the Contract.

16.3 CESSATION OF WORK AND REMOVAL OF CONTRACTOR'S EQUIPMENT

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] or Sub-Clause 19.6 [Optional Termination, Payment and Release] has taken effect, the Contractor shall promptly:

- (a) cease all further work, except for such work as may have been instructed by the Engineer for the protection of life or property or for the safety of the Works,
- (b) hand over Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
- (c) remove all other Goods from the Site, except as necessary for safety, and leave the Site.

16.4 PAYMENT ON TERMINATION

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, the Employer shall promptly:

- (a) return the Performance Security to the Contractor,
- (b) pay the Contractor in accordance with Sub-Clause 19.6 [Optional Termination, Payment and Release], and
- (c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

17. RISK AND RESPONSIBILITY

17.1 INDEMNITIES

The Contractor shall indemnify and hold harmless the Employer, the Employer's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:

- (a) bodily injury, sickness, disease or death, of any person whatsoever arising out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, wilful act or breach of the Contract by the Employer, the Employer's Personnel, or any of their respective agents, and
- (b) damage to or loss of any property, real or personal (other than the Works), to the extent that such damage or loss arises out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless and to the extent that any such damage or loss is attributable to any negligence, wilful act or breach of the Contract by the Employer, the Employer's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.

17.2 CONTRACTOR'S CARE OF THE WORKS

The Contractor shall take full responsibility for the care of the Works and Goods from the Commencement Date until the Taking-Over Certificate is issued (or is deemed to be issued under Sub-Clause 10.1 [Taking Over of the Works and Sections]) for the Works, when responsibility for the care of the Works shall pass to the Employer.

If any loss or damage happens to the Works, Goods or Contractor's Documents during the period when the Contractor is responsible for their care, from any cause not listed in Sub-Clause 17.3 [Employer's Risks], the Contractor

shall rectify the loss or damage at the Contractor's risk and cost, so that the Works, Goods and Contractor's Documents conform with the Contract.

The Contractor shall be liable for any loss or damage caused by any actions performed by the Contractor after a Taking-Over Certificate has been issued. The Contractor shall also be liable for any loss or damage which occurs after a Taking-Over Certificate has been issued and which arose from a previous event for which the Contractor was liable.

17.3 EMPLOYER'S RISKS

The risks referred to in Sub-Clause 17.4 [Consequences of Employer's Risks] below, insofar as they directly affect the execution of the Works in the Country, are:

- (a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- (b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war, within the Country,
- (c) riot, commotion or disorder within the Country by persons other than the Contractor's Personnel,
- (d) any operation of the forces of nature which is Unforeseeable or against which an experienced contractor could not reasonably have been expected to have taken adequate preventive precautions.

17.4 CONSEQUENCES OF EMPLOYER'S RISKS

If and to the extent that any of the risks listed in Sub-Clause 17.3 above results in loss or damage to the Works, Goods or Contractor's Documents, the Contractor shall promptly give notice to the Engineer and shall rectify this loss or damage to the extent required by the Engineer.

If the Contractor suffers delay and/or incurs Cost from rectifying this loss or damage, the Contractor shall give a further notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- (b) payment of any such Cost, which shall be included in the Contract Price. In the case of sub-paragraphs (f) and (g) of Sub-Clause 17.3 [Employer's Risks], Cost plus profit shall be payable.

After receiving this further notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

17.5 INTELLECTUAL AND INDUSTRIAL PROPERTY RIGHTS

In this Sub-Clause, "infringement" means an infringement (or alleged infringement) of any patent, registered design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the Works; and "claim" means a claim (or proceedings pursuing a claim) alleging an infringement.

The Contractor shall indemnify and hold the Employer harmless against and from any other claim which arises out of or in relation to (i) the manufacture, use, sale or import of any Goods, or (ii) any design for which the Contractor is responsible.

If a Party is entitled to be indemnified under this Sub-Clause, the indemnifying Party may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it. The other Party shall, at the request and cost of the indemnifying Party, assist in contesting the claim. This other Party (and its Personnel) shall not make any admission which might be prejudicial to the indemnifying Party, unless the indemnifying Party failed to take over the conduct of any negotiations, litigation or arbitration upon being requested to do so by such other Party.

17.6 USE OF EMPLOYER'S ACCOMMODATION/FACILITIES

The Contractor shall take full responsibility for the care of the Employer provided accommodation and facilities, if any, as detailed in the Specification, from the respective dates of hand-over to the Contractor until cessation of occupation (where hand-over or cessation of occupation may take place after the date stated in the Taking-Over Certificate for the Works).

If any loss or damage happens to any of the above items while the Contractor is responsible for their care arising from any cause whatsoever other than those for which the Employer is liable, the Contractor shall, at his own cost, rectify the loss or damage to the satisfaction of the Engineer.

18. INSURANCE

18.1 Insurance for Works and Contractor's Equipment

Before the commencement of the work, the Contractor shall take and maintain insurances under this Sub-Clause: The Insurance

- (a) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from the insurers, payments being held or allocated to the Party actually bearing the costs of rectifying the loss or damage,
- (b) shall cover all loss and damage from any cause not listed in Sub-Clause 17.3 [Employer's Risks],

(c) shall also cover, to the extent specifically required in the bidding documents of the Contract, loss or damage to a part of the Works which is attributable to the use or occupation by the Employer of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and (h) of Sub-Clause 17.3 [Employer's Risks], excluding (in each case) risks which are not insurable at commercially reasonable terms.

The Contractor should take Contractor's All Risk Insurance and Extensions on first loss basis: Policy to inter alias cover the following:

- Contract works for entire Contract Value plus cost of Owner supplied material valid for the completion period and any extension thereof.
- Earthquake, Civil commotion, riots, war and other disturbances.
- Debris removal.
- Extended Maintenance Cover till completion of Defects Liability Period and any extension thereof.

18.2 INSURANCE AGAINST INJURY TO PERSONS AND DAMAGE TO PROPERTY (THIRD PARTY)

The Contractor shall insure against any loss, damage, death or bodily injury which may occur to any physical property (except things insured under Sub-Clause 18.1 [Insurance for Works and Contractor's Equipment]) or to any person (except persons insured under Sub-Clause 18.3 [Insurance for Contractor's Personnel]), which may arise out of the Contractor's performance of the Contract and occurring before the issue of the Performance Certificate.

This insurance shall be for a limit per occurrence of not less than the amount stated in the Contract Data, with no limit on the number of occurrences. If an amount is not stated in the Contract Data, this Sub-Clause shall not apply.

Unless otherwise stated in the Special Conditions of Contract, the insurances specified in this Sub-Clause:

- (a) shall be effected and maintained by the Contractor as insuring Party,
- (b) shall be in the joint names of the Parties,
- (c) shall be extended to cover liability for all loss and damage to the Employer's property (except things insured under Sub-Clause 18.1) arising out of the Contractor's performance of the Contract, and
- (d) may however exclude liability to the extent that it arises from:

(i) the Employer's right to have the Permanent Works executed on, over, under, in or through any land, and to occupy this land for the Permanent Works, (ii) damage which is an unavoidable result of the Contractor's obligations to execute the Works and remedy any defects, and (iii) a cause listed in Sub-Clause 17.3 [Employer's Risks], except to the extent that cover is available at commercially reasonable terms. The Contractor shall effect and maintain Workmen's **18.3** Insurance for **CONTRACTOR'S PERSONNEL** Compensation Insurance/ equivalent insurance against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel. The insurance shall cover the Employer and the Engineer against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Employer or of the Employer's Personnel. The insurance shall be maintained in full force and effect during the whole time that these personnel are assisting in the execution of the Works. For a Subcontractor's employees, the insurance may be affected by the Subcontractor, but the Contractor shall be responsible for compliance with this Clause. **18.4 FAILURE TO INSURE** If the Contractor fails to comply with the terms of Sub clause 18, the Engineer may effect and / or keep current (but without obligation to do so) the insurance at the cost and expense of the Contractor and at two times the expenses incurred, deduct the expenses from any moneys that may be or become payable to the Contractor or may use his option, refuse payment of any certificate to the Contractor until the Contractor complies with this condition. 19. FORCE MAJEURE 19.1 DEFINITION OF FORCE In this Clause, "Force Majeure" means an exceptional event MAJEURE or circumstance: (a) which is beyond a Party's control, (b) which such Party could not reasonably have provided

	against before entering into the Contract,	
	(c) which, having arisen, such Party could not reasonably have avoided or overcome, and	
	(d) which is not substantially attributable to the other Party.	
	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:	
	(i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,	
	(ii) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,	
	(iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,	
	 (iv) munitions of war, explosive materials, ionising 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 	
	(v) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.	
19.2 NOTICE OF FORCE MAJEURE	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.	
	The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.	
	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.	
19.3 DUTY TO MINIMIZE DELAY	Each Party shall at all times use all reasonable endeavours to minimise any delay in the performance of the Contract as a result of Force Majeure.	
	A Party shall give notice to the other Party when it ceases to	

be affected by the Force Majeure. 19.4 Consequences of Force If the Contractor is prevented from performing his substantial obligations under the Contract by Force Majeure MAJEURE of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], and suffers delay and/or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to: (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and (b) if the event or circumstance is of the kind described in sub-paragraphs (i) to (iv) of Sub-Clause 19.1 [Definition of Force Majeure] and, in sub-paragraphs (ii) to (iv), occurs in the Country, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 18.1 [Insurance for Works and Contractor's Equipment]. After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters. 19.5 FORCE MAJEURE AFFECTING If any Subcontractor is entitled under any contract or SUBCONTRACTOR 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 non-performance or entitle him to relief under this Clause. If the execution of substantially all the Works in progress is 19.6 OPTIONAL TERMINATION, **PAYMENT AND RELEASE** prevented for a continuous period of 84 days by reason of Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], or for multiple periods which total more than 140 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 Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment]. Upon such termination, the Engineer shall determine the value of the work done and issue a Payment Certificate which shall include:

- (a) the amounts payable for any work carried out for which a price is stated in the Contract;
- (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;
- (c) Other Cost or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works.

19.7 RELEASE FROM PERFORMANCE

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 fulfil 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:

- (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
- (b) The sum payable by the Employer to the Contractor shall be the same as would have been payable under Sub-Clause 19.6 [Optional Termination, Payment and Release] if the Contract had been terminated under Sub-Clause 19.6.

20. CLAIMS, DISPUTES AND ARBITRATION

20.1 CONTRACTOR'S CLAIMS

If the Contractor considers himself to be entitled to any extension of the Time for Completion under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give notice to the Engineer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 28 days after the Contractor became aware, or should have become aware, of the event or circumstance.

If the Contractor fails to give notice of a claim within such period of 28 days, the Time for Completion shall not be extended.

The Contractor shall also submit any other notices which

are required by the Contract, and supporting particulars for the extension all as relevant to such event or circumstance.

The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Engineer. Without admitting the Employer's liability, the Engineer may, after receiving any notice under this Sub-Clause, monitor the record-keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Engineer to inspect all these records, and shall (if instructed) submit copies to the Engineer.

20.2 APPOINTMENT OF THE ADJUDICATOR

The Adjudicator shall be appointed jointly by the Employer and the Contractor, at the time of the Employer's issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority designated in the **SCC**, to appoint the Adjudicator within 14 days of receipt of such request.

Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Employer and the Implementing Agency. In case of disagreement between the Employer and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority at the request of either party, within 14 days of receipt of such request.

20.3 PROCEDURE FOR DISPUTES

If the Contractor believes that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 days of the notification of the Engineer's decision.

The Adjudicator shall give a decision in writing within 28 days of receipt of a notification of a dispute.

The Adjudicator shall be paid by the hour at the rate specified in the SCC, together with reimbursable expenses of the types specified in the SCC, and the cost shall be divided equally between the Employer and the Contractor, whatever decision is reached by the Adjudicator. Either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Adjudicator's written decision. If neither party refers the dispute to arbitration within the above 28 days, the Adjudicator's decision shall be final and binding.

	The arbitration shall be conducted in accordance with the arbitration procedures published by the institution named and in the place specified in the SCC .	
20.4 VOID		
20.5 ARBITRATION	ARBITRATION Any dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 20.5 above and in respect of which the Adjudicator's decision (if any) has not become final and binding shall be finally settled by arbitration. Arbitration shall be conducted in accordance with The Arbitration and Conciliation Act, 1996 The place of arbitration shall be Kakinada as specified in the Contract Data; and the arbitration shall be conducted in the language for communications defined in Sub-Clause 1.4 [Law and Language].	
	The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer, and any decision of the Adjudicator relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Engineer from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.	
20.6 VOID		
20.7 VOID		

Section VII - Special Conditions of Contract

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

Part A - Contract Data

Sub-Clause	Conditions	Data
1.1.2.2 & 1.3	Employer's name and address	Managing Director Kakinada Smart City Corporation Limited KSCCL, D.no 2-33-10, Peketivari street, Perrajupeta,, Kakinada, 533001, AP, India
1.1.2.4 & 1.3	Engineer's name and address	Project Manager Kakinada Smart City Corporation Limited KSCCL, D.no 2-33-10, Peketivari street, Perrajupeta,, Kakinada, 533001, AP, India
1.1.5.6	Sections	Sections Not allowed.
1.6	Time for the Parties entering into a Contract Agreement	The successful bidder(s) shall execute an agreement/contract for the fulfilment of the contract on Rs.100/- non judicial stamp paper in the format enclosed, within 10 days (ten days) from the date of issuance of Letter on Award to the successful bidder. The successful Bidder shall have to submit Letter of Acceptance within 04(four days) working days, from the date of issuance of Letter of Award (LoA). The successful bidder shall complete all the formalities including depositing performance guarantee equivalent to 5% of cost quoted by the bidder to enter into the contract agreement. After the receipt of the PBG the Employer will enter into agreement with the Contractor and Issue a Work Order within 3 working days from entering into the contract agreement duly indicating the commencement date. The incidental expenses of execution of agreement/contract shall be borne by the successful bidder.
3.1(b)(ii)	Engineer's Duties and Authority	Any Variations resulting in an increase of the Accepted Contract Amount in excess of Contract Price shall require approval of the Employer.
4.2	Performance Security	5% of the bid value will be the performance security (PBG) in the form of a Bank Guarantee from a Nationalized / Scheduled / commercial bank issued in favour of Kakinada Smart City Corporation Limited as per format given in Section

Sub-Clause	Conditions	Data
		VIII. The PBG will be returned back after the successful completion of the project including the Defects Liability Period.
4.19	Electricity and water	The Contractor has to make its own arrangement for electricity and water during the construction phase.
6.5	Normal working hours	9:00 AM to 6:00 PM
7.A	Designs by the Employer	Employer shall give all the required Good for Construction drawings within 15 days from the commencement of the Contract.
7.3	Inspection	All works are to be executed in conformity to the relevant MoRT&H/BIS Codes of Practice. PMC will inspect for quality control as per the latest relevant BIS/ IS code. This clause supersedes any other codes specified earlier in the document.
8.1	Commencement of Works	The Commencement date of the work will be the date of issue of Work Order after the signing of the Contract Agreement.
8.2	Time for Completion	12 (Twelve) Months
8.5	Delay damages for the Works	Delay damages for the works/ Liquidated damages will be applicable as per table given at the end of this section Part A- Contract Data.
8.5	Maximum amount of delay damages	10% of the final Contract Price.
11	Defects Liability Period	2 (two) years from the date of completion of work.
13.3	Adjustments for Changes in Cost/ Price Adjustment	Price adjustment will be done as per GO MS No 94 of T R & B dated 16-04-2008 for only Cement and Steel, as per Govt. of AP rules.
		The base price of Cement and Steel for this bid will be considered as per ENC, PH, Tadepalli Circular
		 Cement OPC 43/53 grade- Rs.240 per bag TMT/HYSD bars of Fe 415 and Fe 500 grade- Rs.34,500 per Tonne.
14.3, 14.4	Application for Interim Payment Certificate and Schedule of Payments	Interim Payment Certificates should not be raised more than once in a calendar month.

Sub-Clause	Conditions	Data
14.2	Mobilization Advance	A mobilization advance of 10% of the bid value is payable to the Contractor on request to the Employer in two instalments against submission of BG for 110% of value. "mobilization advance" would be deemed as interest bearing advance at an Prime lending Rate (PLR)/ base rate of State bank of India, (to be stipulated depending on the prevailing rate at the time of issue of NIT) to be compounded quarterly. Advance will be recovered from the contractor from the disbursements of the first 3 interim payment certificates. 5% mobilization advance can be given immediately after the issue of Work Order Balance 5% can be given after the mobilization of the man power, machinery and material at site. Mobilization advance is payable against Bank guarantee only.
14.3	Percentage of Retention money	5% of the Interim payment certificate. The Retention money will be returned after the successful completion of the construction phase i.e., after the receipt of Completion Certificate from the Employer. The retention money will be returned back after the successful completion of the project including the defects liability period.
14.5	Issue of Interim Payment certificate.	The Contractor will submit the statement as for Sub- Clause 14.3 of the General Conditions of the contract to the PMC for check, certification and onward submission to the Employer. Payment conditions apply for all School buildings independently based on the rates quoted in financial bid part – 1&2 based on the work actual executed. Contractor can raise the monthly running bills.
14.5	Minimum Amount of Interim Payment Certificates	10% of the Accepted Contract Amount except in the case of Final Payment.

Sub-Clause	Conditions	Data
14.8	Statement of Completion	The Contractor along with the Statement of completion as given in GCC 14.8 shall submit 3 copies of As built drawings of the work executed along with soft copy in AutoCAD software.
18.2	Minimum amount of third party insurance	As per the prevailing rules of AP Govt.
20.2	The Adjudicator shall be	The Adjudicator proposed by the Employer is: <i>Chairman Institution of Engineer (India) Kakinada</i> . The hourly fee for this proposed Adjudicator shall be: Rs 1000/ The biographical data of the proposed Adjudicator is as follows: Engineering professional, with more than 20 years' experience with post graduate degree in Engineering.

Table: Payment, Time lines and Charges for Delay for the work- Applicable for Construction of Two Lane Road Bridge at Pratap Nagar, Kakinada (as per financial bid part -1)

Section Name/Description (Sub-Clause 1.1.5.6)	Time for Completion (Sub-Clause 1.1.3.3)	Damages for Delay (Sub-Clause 8.7)
Milestone 1 Financial milestone is 15% of the Contract Price	1/4 time of completion	0.1% per week for the balance work to be done to achieve the milestone.
Milestone 2 Financial milestone is 50% of the Contract Price	2/4 time of completion	0.1% per week for the balance work to be done to achieve the milestone.
Milestone 3 Financial milestone is 75% of the Contract Price	3/4 time of completion	0.1% per week for the balance work to be done to achieve the milestone.
Milestone 4 100% works completed	Completed time of completion	0.1% per week for the balance work to be done to achieve the milestone.

Part B - Quality Control

1. **IDENTIFYING DEFECTS**

1.1 The Engineer-in-Charge 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 Engineer-in-Charge may instruct the Contractor to verify the Defect and to uncover and test any work that the Engineer considers may be a Defect.

2. **TESTS**

2.1 If the Engineer-in-Charge instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the Contractor shall pay for the test and any samples.

3. **CORRECTION OF DEFECTS**

- 3.1 The Engineer-in-Charge shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins on Completion. The defects liability period shall be extended for as long as defects remain to be corrected by the Contractor.
- 3.2 Every time notice of a Defect is given, the Contractor shall correct the notified defect within the length of time specified by the Engineer-in-Charge's notice.

4. UNCORRECTED DEFECTS

- 4.1 If the contractor has not corrected the defect within the time specified in the Engineer-in-Charge's notice, the Engineer-in-Charge will assess the cost of having the defect corrected and the contractor will pay this amount.
- 4.2 The Engineer-in-Charge shall introduce O.K. cards and prescribed the formats there of O.K. cards shall relate to all major components of the work. The contractor/his authorised representative shall be required to initiate and fill in and present the O.K. card to the construction staff who would check the respective items and send to the quality control staff for final check and clearance/O.K. Any defects pointed out by the construction supervision staff or by the Quality Control staff shall promptly be attended to by the contractors and the fact of doing so be duly recorded on the back of O.K. card.
- 4.3 The Engineer-in-Charge may also introduce check lists which shall be kept in Bound registers by the construction supervision staff. The contractor may be required to fill up these lists in the first instance and shall be subsequently checked by the Construction/Quality Control engineers.

5. **QUALITY CONTROL**

In addition to the normal inspection by the regular staff in-charge of the Construction of work, the work will also be inspected by the Executive Engineer/Superintending Engineer

Quality control Circle or by the State or District level Vigilance Cell Unit and any other authorised external Agency if any sub-standard work or excess payments are noticed with reference to measurement books etc., during inspection, action will be taken based on their observations and these will be effected by the Engineer-in-Charge of the execution of the work. Contractor shall submit quality plan and also show proof of owning quality lab.

6. **RECOVERIES**

Recoveries to be effected from the contractors for deficient execution of work as per Circular Memo No: 12582/Vig-I/1/2005-1, Dated: 23-03-2006 communicated by the Engineer-in-Chief (R&B) Admn. & Roads, vide Memo No: 3027/QC/ AEE5/ DEE2/ MC/ 2006, Dated: 28-10-2006.

The following guidelines shall be followed in regard to maintenance of quality, quantity and penalties to be imposed for deficient execution of work on the contractor's vis-à-vis the disciplinary action to be taken against the concerned engineers.

6.1 **FORMATION**

Density: The density of the materials shall conform to MORTH Table 300-1. The earth work shall be compacted to the required density i.e., 95% for OMC. The determination of density shall be as per IS 2720 (Part 28).

Acceptance Criteria: The density test location shall be chosen only through random techniques as closer as required to yield the minimum number of test results for evaluating a day's work. At least one measurement of density for every 1000 square meters of compacted area shall be taken. The number of tests in onset of measurements shall be 6 (if ND tests are conducted it shall be double). If considerable variations are observed between individual density results minimum number of tests in one set shall be increased to 10. Control shall not be based on any one test but on the mean value of set 5-10 density determination. The mean density shall not be less than the specified density plus [1.65-(1.65/(No. of samples) 0.5)] times the standard deviation.

RECOVERY FROM CONTRACTOR: If any deviation is beyond the above limit, the work shall be rejected.

6.2 **GSB/WMM/WBM**

Thickness: The averages thickness shall be based on 5 points in a C/s for two lane and 3 points for single lane and proportionately increased for additional lanes. (At least two cross

sections in 1 km length or less). The average thickness shall not be less than specified thickness.

Over size of metal: Whenever graded metal is used.

- i) No oversize will be allowed over and above the range specified as per in the first sieve (top sieve).
- ii) Over size in sieves other than top sieve the difference in the rates of the metal of the specified size and next higher size in the **specified grade should be recovered** for that quantity of oversize metal.
- iii) However if the over size in any sieve other than top sieve is found to be **above**30%, metal collected should be rejected.

Weight: The physical requirements shall conform to MoRT&H Table 400-6/400-10. The density of the compacted layer shall be at least 98% of the maximum dry density as determined for the material as per IS 2720 (Part 8). The weight of material (for WBM) shall not be less than the quantity specified in the data as per density of metal to be recorded prior to usage. However, 10% tolerance may be permitted due to crushing of edges and corners, deviations in the measurement pit $(0.5 \text{ m} \times 0.50 \text{ m})$.

6.3 SHORTFALL IN THICKNESS/QUANTITY/WEIGHT

- a) If shortfall is **up to 10%** in any one of the above parameter i.e., a+b+c = 10% specified oversize, **thickness/weight** in a KM Recovery **@ twice** the agreement rates to be effected for the deficiency.
- b) If shortfall is between **10% and 20%** in any one of the above parameter i.e., a+b+c = 10% to 20% specified oversize, **thickness/weight** in KM Recovery to be effected **@ thrice** the agreement rates for the deficiency.
- c) If shortfall is more than 20% of specified thickness/quantity/weight the work is to be rejected and redone.
- d) In case both deficiency i.e., thickness & weight of metal is noticed, the recovery shall be for the maximum of the two deficiencies.

6.4 SDBC/MSS/BM/DBM BITUMINOUS ITEMS:

Thickness: The average thickness shall be the arithmetic mean of the difference of levels before and after construction at all grid points in that area i.e., at every 10 m c.c. longitudinally and 0.75 m and 2.75m on two lanes, 1.25 m on single lane transversely. The recovery for less thickness shall be as under.

Binder quantity: The binder content shall have to be tested at the plant or mix at the time of laying. Research carried out in the country revealed that with manage of time there would

be loss of bitumen in layer which may occur from day one. Further the testing procedure / sampling itself varies from laboratory to laboratory, person to person and the results are subject to efficiency of the personnel as well as equipment.

The MORTH specification gives a tolerance of \pm 0.30% which in fact is for the plant mix and cannot be straight away applied for tests conducted on the surface after lapse of time. The bitumen extraction tests shall have to be conducted as early as possible and in no care beyond 6 months.

Considering all these aspects the variations in Binder content and recoveries to be effected are:

- 1) 0-10% recovery to be effected @ twice the agreement.
- 2) 10-15% recovers to be effected @ thrice the agreement.
- 3) More than 15% the layer shall be rejected and re-laid.

6.5 SHORTFALL IN THICKNESS/QUANTITY/WEIGHT

- a) If shortfall is up to 10% in the specified thickness/quantity/weight Recovery @ twice the agreement rates to be effected for the deficiency in quantity.
- b) If shortfall is between 10% and 20% in the specified thickness/quantity/ weight –
 Recovery to be effected @ thrice the agreement rates for the deficiency in quantity.
- c) If shortfall is more than 20% of specified thickness/quantity/weight the work is to be rejected and redone.

6.6 **CONCRETE ITEMS:**

The testing and tolerance shall be as per MORTH section 903.5. No deviations are acceptable in thickness of PCC/all members except concrete pavements. In case of strength requirement in which established based on concrete cores/cubes no deviation is remitted from specified strength. However if the lesser strength concrete is allowed duly satisfying design criteria the rate of lower grade concrete or equipment to the actual strength only shall be paid.

PAYMENT ADJUSTMENT FOR DEFICIENCY IN THICKNESS

Deficiency in the average thickness of day's work	Percent contract unit price payable
Up to 5 mm	100

6 – 10 mm	87
11 – 15 mm	81
16 – 20 mm	75
21 – 25 mm	60

GENERAL:

- 1. The edges of the carriageway shall be correct within a tolerance of +/- 10mm.
- 2. The negative tolerance of top layer shall not be permitted in conjunction with positive tolerance of bottom layer.
- 3. The QC shall inspect the work at every stage of execution particularly before laying bituminous layers & during execution of BT layer on their own. QC is meant for quality assurance, any check after completion does not serve the quality assurance.

The contractor shall test all the materials as per agreement specifications and results shall be recorded duly signed by the contractor or his representative and the section officer. The name of work and quarry location shall be clearly noted in the test reports.

6.7 THE AMENDED GRADATION LIMITS WITH REGARDS TO WET MIX MACADAM IS AS UNDER:

Ammended Table 400-11(A) grading requirement of aggregates for Wet Mix Macadam

IS Sieve Designation	Percept by weight passing the IS Sieve
53.00 mm	100
45.00 mm	75-90
26.5 mm	-
22.4 mm	45-70
11.2 mm	25-45
4.75 mm	20-25
2.36 mm	10-20
600 microns	5-10
75 microns	0-4

6.8 **QUALITY CONTROL LABORATORY:**

For all works costing more than Rs. 200.00 lakhs, the tenderer shall submit quality plan and also show proof of owning quality laboratory. The following equipment is required:

i)	Testing machine for determining crushing strength of cement concrete cubes	1 No
ii)	Liquid limit and Plastic limit apparatus	1 No
iii)	Slump test apparatus	1 No
iv)	Physical balance	1 No
v)	Electrically operated oven	1 No
vi)	Proctor's compaction equipment	1 No
vii)	Sand replacement method equipment	1 No
viii)	Bitumen extraction equipment	1 No
ix)	Aggregate Impact value equipment	1 No
x)	Flakiness and elongation index equipment	1 No
xi)	Set of IS sieves	1 Set

STATEMENT-I

1. Availability of Critical Equipment

The tenderer should furnish the information required below, regarding the availability of the equipment, required for construction/quality control.

S.	Details of	Number	Number		
No.	Equipment	required			
				Т	
			Owned	Leased	To be procured
1	2	3	4	5	6

Contractor shall submit quality plan and also show proof of owning quality lab.

Signature of the Tenderer

The tenderer has to submit either a certificate issued by the Executive Engineer or a Declaration on non-judicial stamp paper worth Rs 100/- as given below along with sufficient proof of document in support of owning such as Invoice/Certificate of registration by competent authority in support of the critical equipment.

DECLARATION

STATEMENT-I

Availability of Key Equipment

S. No.	Details of each Equipment	Year of purchase	Regn. Number	Capacity	Any other data	Is it in working condition
1	2	3	4	5	6	7

STATEMENT-II

Availability of Key Personnel

Qualification and experience of Key Personnel proposed to be deployed for execution of the Contract.

Sl. No.	Name	Designation	Qualification	Total	Working with the
				Experience	Tenderer since
1	2	3	4	5	6

Signature of the Tenderer

STATEMENT-III

Physical quantities executed by the Tenderer in the last ten financial years [Work wise/year wise].

SI.	Financial	Name of	Agt.	Qua	antities Executed/Year W	/ise
No	Year	work	No			
					T	ı
				WBM/WMM	MSS/SDBC/BM/DBM/	Earthwork
				/CRM/	AC/BC/OGPC with	for forming
				VCC/VRCC	HMP (com Qty)	embankment
				(Com Qty.)		
1	2	3	4	5	6	7
1.	2012-13					
2.	2013-14					
3.	2014-15					
4.	2015-16					
5.	2016-17					

Attach certificates in support of the above quantities issued by the Executive Engineer concerned and countersigned by the Superintending Engineer duly showing the quantities executed year wise.

Signature of the Tenderer

Part C – Supply of Construction Materials

1. Supply of construction materials:

- i) The contractor has to make his own arrangements for procurements, supply and use of construction materials.
- ii) All materials so procured should confirm to the relevant specifications indicated in the bidding documents.
- iii) The contractor shall follow all regulations of the Department/Government of India in respect of import licences etc., of the procurement of the materials is through imports and he shall be responsible for the payment of applicable duties and taxes, port clearances, inland transportation etc.
- iv) The contractor shall make his own arrangements for adequate storage of the materials.
- 2. The Contractor shall procure the hot mix material to the work site, duly maintaining the required laying temperature, as per the specifications.
- 3. An amount of 0.25% of the gross bills will be deducted from the contractors as their contribution to the National Academy of construction, Hyderabad (As per G.O.Ms No 116, T, R&B Department, Dated: 19-05-2007).
- 4. The Contractor shall purchase of Bitumen/Emulsion only form the reputed firm i.e., HPCL and IOCL. They shall not be permitted to use CRMB bought private manufacturers.
- 5. The Contractors shall procure Original bills towards purchase of bitumen /emulsion while submitting the bills for payment.
- 6. Executive Engineer concerned should endorse the name of the work on the bills/vouchers /invoices for which the bitumen emulsion is utilized to avoid reuse of bills on other works.
- 7. The Contractors shall order and procure the bitumen/emulsion work wise so that the contractor obtain invoice/bills work wise and submit the same to the Executive Engineer Concerned while preparing the bills.
- 8. The contractor shall test all the materials as per the agreement specifications and results shall be recorded duly signed by the Contractor or his representative and the Section Officer. The name of the work and quarry location shall be clearly noted in the test reports.
- 9. If any deficiency in the size of metal (aggregates), thickness, binder quantity, density, weight etc., beyond the limits/tolerances prescribed for road works are observed,

necessary recoveries/penalties will be effected as per the Circular Memo No: 12582/Vig.I/1/2005-1, Dated: 23-03-2006 of the Engineer-in-Chief (R&B) Administration & Roads, A.P., Hyderabad.

Part D - Specific Provisions

Office of the Engineer-in-Chief(R&B), NABARD,

Andhra Pradesh :: Hyderabad – 500 082

Circular Memo No: Circulars/NABARD/DCE (N)/DEE-I/2010, Dated: 18-09-2010

Sub: (R&B) Department – NABARD works – Execution of bituminous items of work – Location of HMP and temperature of mix – Certain instructions issued - Regarding

Ref: Arising

* * * * * *

All the Superintending Engineers (R&B) dealing with NABARD works are informed that NABARD officials had inspected certain works recently. They observed that in certain cases the location of the HMP is at large distance to the work site due to which the temperature of the mix is not being followed.

In view of that all the Superintending Engineers (R&B) dealing with NABARD works are requested to follow the instructions given below for all ongoing as well as future works.

- 1. The execution staff should make a practice to ensure the required temperatures of the mix. They shall record the temperature of the mix at (i) the HMP, (ii) the time of coming to site, (iii) laying and (iv) rolling.
- 2. In case of sub-base layers, the material shall be done mechanically by the mix-in-place method using a rotavator or similar approved equipment and shall be spread with the help of motor grader of adequate capacity.
- 3. The material for WMM shall be mixed using pug mill or pan type mixer of concrete batching plant.

The temperatures of mixes as per MORT&H (4th revision) are tabulated below:

	MSS Clause 512	OGPC Clause 511	SDBC Clause 508 (60/70 Gr bitu) Table 500-5
Bitumen mixing temp in °C	150 to 163	150 to 163	150 to 165
Aggregate mixing temp in °C	155 to 163	155 to 163	150 to 170
Mixed material temp in °C	130 to 160	130 to 160	165 maximum
Rolling temp in °C	100 minimum	100 minimum	90 minimum
Laying temp in °C			125 minimum

All the Superintending Engineers are requested to execute the works strictly adhering to the above instructions and as per MORT&H specifications in toto. All the Superintending Engineers and Executive Engineers are instructed to inspect the HMPs in their jurisdictions before starting of works. The Superintending Engineers shall give suitable instructions to all the field officers under their respective jurisdictions in this regard.

Before starting of any BT work the Superintending Engineer and Executive Engineer should inspect the HMP proposed for executing any particular work and satisfy themselves about the temperatures attainable as prescribed above. They should individually submit a certificate clearly delineating the motorable distance between HMP and site of work. It is observed and out of experience in the past maintenance of above temperatures is virtually not possible in case the HMP is located farther than 70 Km from site of work.

In the light of above experience the Superintending Engineers have to be cautious before submitting these certificates and scrupulously follow the instructions failing which stringent disciplinary action will be initiated against defaulters without any further notice.

S/d-Engineer-in-Chief(R&B), NABARD

To

All Superintending Engineers (R&B) dealing with NABARD works

Copy to the Engineer-in-Chief(R&B), Quality Control and Member COT with a request to give suitable instructions to the QC staff to follow the above mentioned observations during their inspections and give specific report about the compliance.

Section VIII- Contract Forms

Table of Forms

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Contract Form a.

THIS AGREEMENT made theDay of 2016 Between
Employer"/ OR "KSCCL") having its registered/ principal office at
(India) which expression shall mean and include, unless repugnant to the context, its successor; and permitted assigns of the one part
AND
(Name of Successful bidder) (hereinafter called "the contractor"/ "Successful Bidder") having its registered/ principal office at and which expression shall mean and include unless
repugnant to the context, its successor; and permitted assigns,
WHEREAS the KSCCL has invited bids for and
whereas the Successful Bidder desirous of undertaking the works has bid and KSCCL has
accepted the bid for execution of works for a sum of
(contract price) (hereinafter called "the Contract
Price")

SUCCESSFUL BIDDER AS FOLLOWS:

- 1. In this agreement words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This agreement shall prevail over all other contract documents
 - a. The Contract Agreement
 - b. Letter of Award
 - c. Work Order
 - d. Letter of Bid
 - e. The Price Schedule submitted by the Bidders;
 - f. The Scope of work
 - g. Special Conditions of Contract
 - h. General Conditions of Contract
 - i. Instructions to bidders
 - j. KMC's Notification of Award

- 3. The Successful bidder shall be bound by the details furnished by him/her to the KSCCL while submitting the tender or at subsequent stage. Upon selection of the successful bidder, if at any stage, the document furnished by him/her is found to be false or the quality of the work/ services or rate are found of poor quality or different specifications, it would be deemed to be a breach of terms of contract, the contract shall be cancelled and Performance Security shall be stand forfeited.
- 4. The rate quoted by the selected Successful bidder, and as approved by the KSCCL, shall remain valid throughout the period of contract and the request to increase the rates for any or all items, during the period of contract, shall not be entertained at any stage.
- 5. In considerations of the payments to be made by the KSCCL to the Successful bidder as hereinafter mentioned, the Successful bidder hereby covenants with the KSCCL to provide the goods and services and to remedy defects there in conformity in all respects with the provisions of the contract.
- 6. The KSCCL hereby covenants to pay the Successful bidder in consideration of the provision of the goods and services 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.
- 7. The Successful Bidder hereby agrees to deliver the works/ services as mentioned above within contract period of _____
- 8. That in the event of any dispute arising between the parties; the same shall be referred to the Adjudicator for reaching to a amicable solution. In case of failure to reach an agreement from Adjudicator shall be settled by arbitration.

THIS AGREEMENT will take effect fromday ofTwo

Thousand Thirteen and shall be valid for three year.

IN WITNESS WHEREOF, both the parties KSCCL and the SUCCESSFUL BIDDER have entered, their respective common seals to be here unto affixed/ (or have unto set their respective hands and seals) into this Agreement as of _____ day of month ____ of 2017 here at Kakinada.

For and on behalf of the 'Successful Bidder/ Contractor'	For and on behalf of the "Managing Director, KSCCL"
Successial bladely contractor	NOCCE
Signature of the authorized officer	Signature of the authorized officer
Name of the Officer	Name of the Officer
By the Said	By the Said
Names on behalf of the	Names on behalf of
"Authorized	the "Managing Director, KSCCL"
Signatory, of the firm / company "	
In the presence of	In the presence of
Witness:	Witness:
Name:	Name:
Address:	Address:

b. Performance Bank Guarantee Format

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

1.	In consideration of the Kakinada Smart City Corporation Limited, (hereinafter called 'KSCCL') having agreed toM/s Firm name with address(hereinafter called the said 'Successful bidder(s)') from the demand, under the terms and conditions of Agreement NoDated made between KSCCL and M/s Firm name for
	the Name of work (hereinafter called 'the said Agreement') of security deposit for the due fulfilment by the said Successful bidder(s) of the terms and conditions in the said Agreement on production of Bank Guarantee for Rs (Rupees Only) we, Bank name with address, (Indicate the name of
	Bank) (hereinafter referred to as 'the bank') at the request of M/s Firm name, Successful bidder(s) do hereby undertake to pay to the Council an amount not exceeding of Rs. (Rupees Only) on demand by KSCCL.
2.	We, Bank name, do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the KSCCL stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Successful bidder(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupees Only).
3.	We undertake to pay to the KSCCL any money so demanded notwithstanding any dispute or disputes raised by the Successful bidder(s) in any suit or proceedings pending before any court or Tribunal relating thereto, our liability under this present being, absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment hereunder and the Successful bidder(s) shall have no claim against us for making such payment.
4.	We, Bank name with address, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the KSCCL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till person-in-charge on behalf of the Council certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Successful bidder(s) and accordingly discharges this guarantee, or till 5 year & 6 months from the date of submission of bid whichever is earlier.
5.	We, Bank name with address, further agree with the KSCCL that the Council shall have the fullest liberty without our consent and without affecting in any manner our obligations

hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Agreement or the extend time of performance by the said Successful bidder(s) from time to time or to postpone for any time or from time to time ant of the powers exercisable by the Council against the said Successful bidder(s) / Suppliers

and to forebear or enforce any of terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Successful bidder(s) / Suppliers or for any forbearance, act or omission on the part of the KSCCL or any indulgence be the KSCCL to the said Successful bidder(s) / Suppliers or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6.	This guarantee will not be discharged due to change in the constitution of the bank or the Successful bidder(s).
7.	We, Bank name with address, lastly undertake not to revoke this guarantee except with the previous consent of the KSCCL in writing.
8.	This Guarantee shall be valid up tounless extended on demand to be made by the KSCCL. Notwithstanding anything mentioned above, Our liability against this guarantee is restricted to Rs (Rupees Only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee, all our liabilities under this guarantee, shall stand discharged.
	Dated theday of 20
	For
	(Indicate name of Bank)

c. FORMAT FOR AFFIDAVIT CERTIFYING THAT

BIDDER/DIRECTORS(S) ARE NOT BLACKLISTED

(On Rs.100/- Stamp Paper)

Affidavit

I M/s (Sole Applicant / Lead Member/ Other Member /s)), (the names and addresses of the registered office) hereby certify and confirm that we or any of our promoter/s / director/s are not barred or blacklisted by any state government or central government / department / agency/PSU in India or abroad from participating in Project/s, either individually or as member of a Consortium as on
We further confirm that we are aware our Application for the captioned Project would be liable for rejection in case any material misrepresentation is made of discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the Contract period.
Dated thisDay of, 201
Name of the Applicant
Signature of the Authorised Person
Name of the Authorised Person Note:

To be executed separately by all the Members in case of Consortium