

## BID DOCUMENT

Construction of Roofing work in Panposh Market on Percentage Rate Basis.

2025 –26



December– 2025

Rourkela Smart City Limited  
1<sup>st</sup> Floor, RMC City library Udit Nagar,  
Rourkela-769012

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**INVITATION FOR BIDS (IFB)**  
**NATIONAL COMPETITIVE BIDDING**



Bid Id No. RSCL/1747/2025/ Dated 6/12/2025  
NATIONAL COMPETITIVE BIDDING

	Construction of Roofing work in Panposh Market on Percentage Rate Basis.
Date of Invitation of Bid	09/12/2025
Pre- bid	18/12/2025 at 12:30 Hrs.
Last date and time for receipt of bids	29/12/2025 at 15:00 Hrs.
Last date of Physical Submission of Bid	29/12/2025 at 15:00 Hrs.
Time and date of opening of bids	29/12/2025 at 16:00 Hrs.
Place of Sale/Receiving of bids	Online mode only
Officer inviting bids	The Chief Executive Officer, Rourkela Smart City Limited, Rourkela, Odisha
Officer of Accepting bids	The General Manager(E&T), Rourkela Smart City Limited, Rourkela, Odisha

**CHECK LIST TO BE ENSURED BY THE BIDDER**

S.No.	Particular	Reference to DTCN Clause	Whether		Reference to Page no.
			Yes	No	
01	Cost of tender paper Rs.11,800.00 Including GST (Scanned copy of financial instrument shall be furnished)	No.4 & 5(i)			
02	E.M.D		No.5(i) & 20		
03	Copy of valid Registration Certificate		No.5 (i) & 21		
04	Copy of PAN Card		No.5 (i) & 21		
05	Turn over certificate		No. 111 (h)		
06	No Relationship Certificate in Schedule – A		No.35		
07	Information regarding current litigation, debarring /expelling of the tender or abandonment of the work by the tenderer (Schedule-D)		No.49		
08	Affidavit (Schedule-E)		No.49		
09	Works Experience : List of projects under execution/ executed that are similar in nature to the work		Schedule-F & Schedule -C		
10	M.O.U. (Memorandum of Understanding duly notarized) with eligible registered electrical contractor having valid HT. license;		Not Applicable <del>No. 8 &amp; Schedule J</del>		
11	Affidavit for Eligible Class of Contractor e-mail ID & Contact no		Schedule K to Schedule-O		

CONTRACT DATA

**A.GENERAL INFORMATIONS**

S. No.	Item	Detail
1	Name of Work	Construction of Roofing work in Panposh Market on Percentage Rate Basis.
2	Employer	Rourkela Smart City Limited
3	Employer's Representative	The Chief Executive Officer
4	Estimated Cost	Rs. 59,97,506/- (Rs. Fifty Nine Lakhs Ninety Seven Thousand and Five Hundred Six Only) Excluding GST

**B. BID INFORMATION**

5	Intended completion period/Time period assigned for Completion	Four (4) Calendar Months
		Date: 29/12/2025. Time 15:00 hours
7	Cost of Bid Document	
	i Bank draft amount	Rs.11,800/- Including GST
	ii in favour of	RSCL (Smart City Mission Grant Fund)
	iii payable at	Rourkela
8	Earnest Money Deposited	
	i In Form of Bid DD,TDR,FDR BG etc.	Rs.60,000/- (Rs. Sixty Thousand only)
	ii In favour of	RSCL(Smart City Mission Grant Fund)
	iii payable at	Rourkela
	iv Type of instrument	As specified in the bid document
9	Period of submission of original Bid security and Demand draft towards cost of Bid documents in the office of the Chief Executive Officer, Rourkela Smart City Ltd, Rourkela	Date: 09/12/2025 to 29/12/2025 15:00 Hours
10	Bid validity period	90 days
11	Currency of Contract	Indian Rupee
12	Language of Contract	English
13	Retention Money	5(five)%
14	<b>Price Adjustment in Not Applicable in this tender</b>	

**Instruction to Bidders (ITB) e- procurement**  
(Relevant clauses in the DTCN/Bid document shall be superseded)

**1. NOTICE INVITING BID AND OBTAINING BID DOCUMENTS:**

- 1.1. The authority belonging to the major discipline is competent to invite tender of composite bids. He will also nominate the GM (E & T), Rourkela Smart City Limited, who will deal with all matters relating to the bids in the invitation of bids.
- 1.2. For composite tender, estimated cost of each component should be clearly indicated in addition to combined estimated cost put to tender. The eligibility of bidders will correspond to the combined estimated cost of different components
- 1.3. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules / amendments issued there under from time to time. If he fails to do so, it will be considered a breach of the contract and the GM (E&T) may at his discretion Without prejudice to any other right or remedy available under law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation of the provisions of the said Act by him.
- 1.4. The contractor shall be deemed to have satisfied himself as to the correctness and sufficiency of the Tender and of the rates and prices quoted in the Bill of Quantities, all of which shall, except in so far as it is otherwise provided in the Contract, cover all his obligations under the Contract (including those in respect of the supply of goods, materials, plant & services or of contingencies for which there is a Provisional Sum) and all matters and things necessary for the proper execution and completion of the work and the remedying of any defects therein.
- 1.5. The successful bidder shall complete the works by the intended completion date specified in the Contract data.
- 1.6. Throughout these bidding documents, the terms “bid and tender” EMD and Bid Security and their derivatives (bidder / tenderer, bidding / tendering, etc.) are synonymous.
- 1.7. In case the tender for composite work includes in addition to main work / building work all other ancillary works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads, paths ,sculpture and mural paintings etc. , the bidder apart from being a registered civil Contractor of appropriate class must associate himself with agencies of appropriate class those who is eligible to tender for sanitary and water supply drainage, electrical , horticulture works, artistic & sculpture works in the composite tender. Intending Employers are not required to produce any documents viz. copy of Registration, PAN at the time of purchase of tender documents but will be required for verification purpose at later stage.

1.8. PARTICIPATING IN THE BID IN THE E-PROCUREMENT PORTAL: The Contractor/ Bidder intending to participate in the bid is required to register in the Portal with some information about the firm/Contractor. This is a onetime activity for registering in Portal. During registration, the contractor has to attach a Digital Signature Certificate (DSC) to his / her unique user ID. The DSC used must be of appropriate class (Class II or Class III) issued from a registered Certifying Authority such as n-Code, Sify, TCS, MTNL e-Mudra etc.

1.8.1 To log on to the portal the Contractor/Bidder is required to type his/her username and password. The system will again ask to select the DSC and confirm it with the password of DSC. For each login, a user's DSC will be validated against its date of validity and also against the Certificate Revocation List (CRL) of respective CAs stored in system database. The system checks the unique ID, password and DSC combination and authenticates the login process for use of portal.

1.8.2 The tender documents uploaded by the Tender Inviting Officer in Website [www.tendersodisha.gov.in](http://www.tendersodisha.gov.in), will appear in the section of "Upcoming Tender" before the due date of tender sale. Once the due date has arrived, the tender will move to "Active Tender" Section of the homepage. Only a small notification will be published in the newspaper specifying the work details along with mention of the specific website for details. The publication of the tender will be for specific period of time till the last date of submission of bids as mentioned in the 'Invitation for Bid' after which the same will be removed from the list of Active tenders. Any bidder can view or download the bid documents from the web site.

1.8.3 Contractor exempted from payment of EMD/ Bid security will be able to participate the tender directly by uploading documentary evidences towards his eligibility for such exemption.

1.8.4 If the software application has the provision of payment of cost of tender document through payment gateways of authorized bankers by directly debiting the account of the bidders, bidders will be required to avail online payment.

1.9 The bidder intending to participate in the bid on-line shall prepare the bid security and demand draft towards cost of bid as per IFB (except for exempted contractors) and upload the scanned copy of the draft and bid security to the portal against the bid where he is participating and the original shall be deposited to the tender inviting officer within the period specified in the "contract data". If the Bidder fails to deposit the original bid security and demand draft towards cost of bid within the stipulated time his bid shall be rejected and action as per prevailing rule shall be taken.

1.10 In the case of any failure, malfunction, or breakdown of the electronic system used during the e-procurement process, the tender inviting officer shall not accept any responsibility for failures or breakdowns other than in those systems strictly within their own control.

1.11 Any third party/company/person under a service contract for operation of e- procurement system in the State or his/their subsidiaries or their parent companies shall be ineligible to participate in the procurement processes that are undertaken through the e-procurement system irrespective of who operates the system.

**2. ELIGIBLE BIDDERS:**

2.1 This Bid is open to all Civil Contractors of 'B' Class contractors as per OPWD Code, registered with the State Governments and Contractors of Equivalent Grade/ Class Registered with Central Government/ MES/ Railways for execution of civil works. The Bidders are required to enclose the proof of registration from the registering authority along with the Bid subject only the registration in the portal using his/her DSC for on-line bids. Contractors not registered with Govt. of Odisha can participate in the e-procurement after necessary enrolment in the portal but have to subsequently register themselves with the appropriate registering authority of the state Govt. before award of the work as per prevalent registration norms of the state.

2.2 All bidders shall provide a statement that the bidder is neither associated, nor has been associated, directly or indirectly, with the Consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract. A firm that has been engaged by the Engineer-in-Charge to provide consulting services for the preparation or supervision of the works, and any of its affiliates shall not be eligible to bid.

2.3 If the bidder has a relative employed as an Officer in the rank of an Assistant Engineer/Under Secretary and above in the Government of Odisha in the concerned Department, he shall inform the same in Schedule-G of the bid document mentioning the exact details in a covering letter along with the tender, failing which his bid will not be considered. Also, if the fact of relationship subsequently comes to light, his contract will be rescinded. The bid security or the performance security will be forfeited, and he shall be liable to make good any loss or damage resulting from such cancellation. In case the bidder has no relationship with any of the officers mentioned above he shall have to furnish with his bid an undertaking to that effect.

2.4 He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the concerned Department. Any breach of this condition by the contractor would render him liable for penal action for suppression of facts.

2.5 No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of Odisha is allowed to work for contractor for a period of two years after his retirement from Government service, without prior permission of the Government of Odisha in writing. Such a contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of Odisha as aforesaid before submission of the tender for engagement in the contractor's service.

### **3. QUALIFICATION CRITERIA:**

3.1 For submission of Bids through the E-Procurement Portal, the bidder shall up-load the scanned copy/copies of documents listed under clause 3.2 in prescribed format wherever warranted in support of eligibility criteria and qualification information. The L-1 bidder shall have to produce the original documents in support of the scanned copies and statements uploaded in the portal within 5 days of opening of price bid. Bids from Joint ventures are not acceptable.

3.2 The bid shall include following information and documents.

- a) Copy of valid contractor's registration certificate, PAN card, GST Registration should accompany the technical bid.
- b) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory.
- c) The contractor shall furnish ownership documents for those machineries which he is planning to deploy for the tendered work.
- d) Details of work under progress as per tender documents.
- e) Details of works executed during the last five years and works in hand (list of on-going works) as per bid documents.

3.3 The Bidders are subject to be disqualified if they have:

- a) Made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- b) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or
- c) Indulged in unlawful & corrupt means in obtaining bids
- d) Been black listed/their registrations by the competent authority.

### **4. ONE BID PER BIDDER:**

4.1 Each bidder shall submit only one bid for one package. A bid is said to be responsive if accompanied by cost of bid document and appropriate bid security . The system shall consider only the last bid submitted through the E-Procurement portal.

**5. COST OF BIDDING:**

- 5.1 The bidder shall bear all costs associated with the preparation and submission of his bid, and the Engineer-in-Charge will in no case be responsible and liable for those costs.
- 5.2 All the rates and prices in the bid shall cover all taxes, viz. or any other local taxes, ferry, tollage charges and royalties and any other charges except GST
- 5.3 The rate of royalties and taxes prevailing on the date of measurement shall be considered while making deductions in the bills.
- 5.4 The successful bidder shall make his own arrangement for all materials unless otherwise specified in the conditions of contract.

**6. SITE VISIT :**

- 6.1 Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks contingencies and other circumstances which may influence or affect their bid. A Bidder shall be deemed to have full knowledge of the site whether he inspects it not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The Bidder shall be responsible for arranging and maintaining workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which tools and plant, etc. Will be issued to him by the Government and local conditions and other factors having a bearing on the execution of work.
- 6.2 The bidder, in preparing the bid, shall go through the site Investigation Reports provided in the Contract Data before filling up the Bid document.
- 6.3 The Officer inviting the bid / Engineer-in-Charge will clarify queries on the Contract Data on requisition by the intending Bidder. The bidder may ask question in the e-procurement portal using his DSC; provided the questions are raised before the date mentioned in the home page under critical dates.

## BIDDING DOCUMENTS

### 7. GENERAL INSTRUCTIONS:

7.1 The description of the work is as mentioned under Invitation for Bid

7.2 The bids uploaded by the Tender Inviting Officer may consist of general arrangements drawings or typical sections of the project. Bidder may download these drawings and take out the print for detail study. Any other drawings and documents pertaining to the works available with the officer inviting the Bid as well as in the office of the RSCL) as mentioned in the contract data will be open for inspection during working hours on all working days by the bidders. The bidder is required to download all the documents including the drawings for preparation of his bid. It is not necessary on the part of the Bidder to up-load the drawings other Bid documents (after signing) while up-loading his bid. He is required to upload documents related to his qualification information and Bill of Quantities duly filled in. It is assumed that while participating in the bid, the bidder has referred to all the drawings and documents uploaded by the Officer Inviting the Bids. Seeking any revision of rates or backing out of the bid claiming for not having referred to any or all documents provided in the Bid document by the Officer Inviting the Bids will be construed as plea to disrupt the bidding process and in such cases he will suspend/prohibit/debar/blacklist from participating in bidding in any contract of the State as per OPWD/ELBO or Cancellation of Empanelment (registration of from ELBO/ OPWD) action will be taken RSCL.

7.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, scope of work, technical specifications, bill of quantities, forms, Annexes and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk.

### 8. CLARIFICATION OF BIDDING DOCUMENTS:

8.1 Bid documents consisting of drawings, plans, specifications, the schedule of quantities of the various items of work to be done and the set of terms & conditions of contract to be complied with by the contractor who intends to bid and other necessary Documents can be seen in the office of the officer inviting the Bid during office hours every day except on Sundays & Public Holidays till last date of sale of tender paper.

8.2 No paper copy of the bid shall be sold.

8.3 The Contract Data to bid shall be filled and completed in the office of Officer inviting bid before issue of bid documents. If the documents are issued to the intending bidder without having been so filled in & completed, he shall request the officer inviting the bid to have this done before he completes and delivers his bid.

8.4 The bidder can seek clarification on the bids which he received earlier than 14 days prior to the deadline for submission of bids. The Employer's response will be uploaded in e-tendering portal before deadline for submission of bid.

### 8.5 PRE-BID MEETING: As scheduled in the NIT

*(One request for each interested Participant will be entertained only)*

### 9. AMENDMENT OF BIDDING DOCUMENTS:

9.1 Before the deadline for submission of bids, the officer inviting the Bid may modify the bidding documents by issuing addenda.

9.2 Any addendum thus issued shall be part of the bidding documents and shall be notified in the website [www.tendersodisha.gov.in](http://www.tendersodisha.gov.in) / notice board and through web site of Rourkela Municipal Corporation [www.rmc.nic.in](http://www.rmc.nic.in).

9.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Officer inviting the Bid if also happens to be the Engineer-in-Charge with the permission of the higher authority may, at his discretion, extend as necessary the dead line for submission of bids.

## C. PREPARATION OF BIDS

### 10. LANGUAGE OF THE BID:

10.1 All documents relating to the Bid shall be in the English language. Bids submitted in any other language shall be summarily rejected.

### 11. DOCUMENTS COMPRISING THE BID:

11.1 Following documents will be deemed to be part of the bid even if not submitted with the bid.

- i. Invitation for Bids (IFB)
- ii. Instructions to bidders (ITB)
- iii. Conditions of Contract
- iv. Contract Data
- v. Specifications

11.2 All the volumes/documents shall be provided in the portal by the Officer inviting the bid. The bidder shall carefully go through the document and prepare the required documents and up load the scanned documents in Portable Document Format to the portal in the designated locations of Technical Bid. He will fill up the percentage rate in the BOQ down loaded for the work in designated Cell and up-load the same in designated locations of Financial Bid. Submission of document shall be effected by using DSC of appropriate class.

A. Cost of “Bid document” & “Bid Security” shall comprise

- i. Cost of Bid Document
- ii. Bid Security .

B. “Technical Bid” shall comprise.

- i. Declaration under the Official Secret Act, 1923
- ii. Qualification Information and supporting documents,
- iii. Certificates, undertakings, affidavits,

C. “Financial Bid “shall comprise”.

- i. Priced Bill of Quantities

### 12. PROPOSAL B Y THE BIDDER:

12.1 In the E-Procurement Portal, an intelligent Bill of Quantity in Microsoft Excel format shall be made available to the bidder.

12.2 Deleted

12.3 In case of percentage rate tender, the bidder will only fill in the designated cell and activate “less” or “excess” to indicate how much his price offer is excess or less (Up to two decimal Place) than the estimated amount.

12.4 The bidder shall bid for the whole works as described in the Bill of Quantities.

12.5 Bidders shall submit offers that fully comply with the requirements of the bidding documents, Minutes of meeting of the Pre-Bid meeting, Including the Conditions of Contract basic technical design as indicated in the drawing and specification.

Conditional offer or alternative offers will not be considered in the process of bid evaluation.

- 12.6 All duties, taxes, excluding GST and other levies including Building and other Construction Workers Welfare Cess @ 1% payable by the contractor under the contract, or for any other cause shall be included in the rates, prices by the bidder. GST, purchase tax, turnover tax or any other tax on material in respect of this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same.
- 12.7 The contractor shall be deemed to have satisfied himself as to the correctness and sufficiency of the Tender and of the rates and prices stated in the Bill of Quantities, all of which shall, except in so far as it is otherwise provided in the Contract, cover all his obligations under the Contract (including those in respect of the supply of goods, materials, plant & services or of contingencies for which there is a Provisional Sum) and all matters and things necessary for the proper execution and completion of the work and the remedying of any defects therein.
- 12.8 The contractor shall conform in all respects, by giving all notices and paying all fees, with the provisions of:
  - i. Any national or State Statute, Ordinance, or other Law, or any regulation, or bye-law of any local or other duly constituted authority in relation to the execution and completion of the works and remedying of any defects therein, and
  - ii. The rules and regulations of all public bodies and companies whose property rights are affected or may be affected in any way by the works.

12.9 FOR COMPOSITE BIDS: DELETED.

13. CURRENCIES OF BID AND PAYMENT:

- 13.1 The estimated unit rates and the prices are in Indian Rupees.

14. VALIDITY:

- 14.1 Bids shall remain valid for a period not less than 90 days or the period mentioned in the Contract Data, after the deadline date for submission of bid as specified in the notice inviting the Bids. A Bid valid for a shorter period shall be rejected by the Engineer-in-charge as non-responsive.
- 14.2 In exceptional circumstances, prior to expiry of the original time limit, the Officer inviting the Bid may request the bidders to extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable or by e-mail.

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## 15. BID SECURITY:

15.1 The Bidder shall furnish, as part of his Bid, a Bid security for the amount mentioned under Contract Data. The bidder shall scan all the written pages of the bid security and upload the same to the system in designated place. The successful Lowest bidder will produce the original of all scanned documents for verification within 5days of opening of all tender (Price Bid). In the eventuality of failure on the part of the successful bidder to produce the original documents, he will be may debarred in future from participation in tender as per Govt of Odisha, it may be lost her Empanelment (registration of OPWD) and / or suspend/prohibit/ and will be blacklisted by the competent authority as per OPWD Code/ELBO. In such a situation, successful L-2 bidder will be required to produce his original documents for consideration of his/her tender at the negotiated equal to L-1 bidder.

15.1.1 Fixed deposit receipt of any scheduled bank approved by the Reserve bank (OFDC approved) of India/Indian Post Office Time deposit/National Saving Certificate/Kissan Vikas Patra duly pledged in favour of The Chief Executive Officer, Rourkela Smart City Limited, Rourkela with six month validity as per notice inviting bid by the Department.

15.2. The Bid shall be declared non-responsive and shall be rejected if submitted without an acceptable Bid Security and not secured as indicated in Sub-Clauses 15.1.

15.3. Combined bid security for more than one work is not acceptable.

15.4. In the case of Government Undertakings, Co-operatives Societies, Diploma or Degree holders in Engineering who are registered with the Government of Odisha, the rules framed by government from time to time about Cost of Bid documents, Bid security , performance security will apply.

15.5. Bid Security of unsuccessful bidders will be returned within 28 days of the end of the validity period specified in sub clause 14.1

15.6. Bid Security of successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security and Additional Performance security if any

15.7. The Bidder may be lost her Empanelment (registration of ELBO/OPWD) and / or suspend/prohibit/debar/blacklist from participating in bidding in any contract of the State as per OPWD Code.

15.7.1. If the bidder withdraws the bid after opening of the bid but within the period of validity.

15.7.2. If the Bidder seeks any revision of rates or backs out of the bid claiming for not having referred to any or all documents provided in the Bid by the Officer Inviting the Bids.

15.7.3 In the case of a successful bidder, if the bidder fails within the specified time limit to

15.7.3.1 Sign the Agreement; or

15.7.3.2 Furnish the required Performance Security including additional performance security if any

#### 16. FORMAT AND SIGNING OF BID:

- 16.1. The bidder can download the tender of his choice and save it in his system and undertake the necessary preparatory work off-line and upload the completed tender at his convenience within the final date and time of submission. The bidder shall only submit single copy of the required documents and Price Bid in the portal. In the Financial bid, the bidder cannot leave any figure blank. He has to only write the figures; the words will be self-generated. The Bidders are advised to up-load the completed Bid document well ahead of the last date & time of receipt to avoid any last moment problem of power failures etc.
- 16.2 The Bidder shall go through the Bid carefully and list the documents those are asked for submission. He shall prepare all documents including cost of Bid Document, Bid Security, Declaration form, price bid etc and store in the system.
- 16.3. The bidder shall log on to the portal with his DSC and move to the desired tender for up-loading the documents in appropriate place one by one simultaneously checking the documents. Once the Bidder makes sure that all the documents have been up-loaded in appropriate place, he clicks the submit button to submit the bid to the portal.
  - 16.3.1 Tender cannot be pre-opened and cannot be submitted after due date and time. Therefore, only after satisfying that all the documents been uploaded, the Bidder should activate submit button.
  - 16.3.2 . In the e-procurement process, each process is time stamped. The system can identify each individual who has entered into the portal any bid and the time of entering into the portal.
- 16.3.3 The Bidder should ensure clarity of the document up-loaded by him to the portal, especially the scanned documents by taking out sample printing. Non-submission of legible documents may render the bid non-responsive. However, the Officer inviting the Bids if so desires, can ask for legible copies for clarification within a stipulated period of 7 days, provided such document in no way alters the Bidder's price bid. If the Bidder fails to submit Such documents with in the stipulated date, his bid shall be evaluated on it's own merit.

#### D. SUBMISSION OF BIDS

##### 17. SECURITY OF BID SUBMISSION:

- 17.1 All bid data uploaded by the Bidder to the portal will be encrypted by the DSC of the opener(s). The system shall require all the mandatory forms and fields filled up by the contractor during the process of submission of the bid/tender.
- 17.2 The Bid shall be received in encrypted format by the system which can only be decrypted.

##### 18. DEADLINE FOR SUBMISSION OF THE BIDS:

- 18.1. The online bidding will remain active till the last date and time of the bid submission. Once the date and time (Server date and time) is over, the bidder will not be able to submit the bid. The date & time of bid submission shall remain unaltered even if the specified date for the submission of bids declared a holiday for the Officer inviting the Bid.
- 18.2. The officer inviting the bid may extend the deadline for submission of bids by issuing an amendment in accordance with Sub-Clause 9.3, in which case all rights and obligations of the officer inviting the bid & Engineer-in-Charge and the bidders previously subject to the original deadline will then be subject to the new deadline.

##### 19. LATE BIDS:

- 19.1. The system shall reject submission of any bid through portal after closure of the receipt time. For all purpose the server time displayed in the e-procurement portal shall be the time to be followed by the bidder and concerned officers.

##### 20. MODIFICATION AND WITHDRAWAL OF BIDS:

- 20.1 In the E-Procurement Portal, it is allowed to modify the bid any number of times before the final date and time of submission. The bidder shall have to log on to the system and resubmit the documents as asked for by the system including the price bid. In doing so, the bids already submitted by the bidder will be removed automatically from the system and the latest bid only will be admitted. But the bidder should avoid modification of bid at the last moment to avoid system failure or malfunction of internet or traffic jam or power failure. If the bidder fails to submit his modified bids within the designated time of receipt, the bid already in the system shall be taken for evaluation.
- 20.2 In the E-Procurement Portal, withdrawal of bid is allowed. But in such case he has to write a letter with appropriate reasons for his withdrawal addressed to the Officer inviting the bid and upload the scanned document to portal in the respective bid before the closure of receipt of the bid. The system shall not allow any withdrawal after expiry of the closure time of the bid.

## E. OPENING AND EVALUATION

### 21. OPENING OF THE BID:

21.1 Bid opening dates are specified during tender creation or can be extended vide corrigendum. These dates are available in IFB, tender document as well as the home page of portal. Bid opening can be done by the authorized users which are defined during the tender publication / approval stage. The bids are encrypted using their public keys and can be decrypted only on or after the Bid Opening due date. The bid openers private key will be required to open the bids and all the openers have to log on to the portal during that time.

21.1.1. The bidders who participated in the on-line bidding can witness opening of the bid from any system logging on to the portal with the DSC away from opening place. Contractors are not required to be present during the bid opening at the opening location if they so desire.

21.1.2. Each activity is date and time stamped with user details. For time stamping, server time is taken as the reference.

21.2. In the event of the specified date of bid opening being declared a holiday for the Officer inviting the Bid/Engineer-in-Charge, the bids will be opened at the appointed time on the next working day.

21.3. In case bids are invited for more than one package, the order for opening of the "Bid" shall be that in which they appear in the "Invitation for Bid".

21.4 During bid opening, the covers containing original demand draft towards Cost of bid in the form specified in the Invitation for Bid, received after last of receipt of bid and before opening of the bids shall be opened and declared. The original copy of the Bid Security and period of validity in conformity with clause 15 shall be checked and announced. The list of bidders who have submitted the original copy of the cost of Bid and Bid Security shall be prepared and announced.

21.4.1 Combined bid security for more than one work is not acceptable. If the bid security/EMD has not been furnished in the form specified in Clause 15, the bid will be declared non- responsive and rejected.

21.5 The Bid openers; who have been pre-defined shall log on to the portal with their respective DSC. Unless all the Officers who have been declared as Opening officers, log on the portal with their DSC the Tender cannot be opened.

21.5.1 The Opening Officers will systematically check the scanned demand draft towards cost of the bid document and the scanned document of Bid security with that of the original submitted. If found in order, they will continue opening of all other documents in the system provided under Technical Bid.

21.5.2. The bids accompanied with appropriate bid cost and valid bid security /EMD will be taken up for evaluation with respect to the qualification Information and other information furnished in Part - I pursuant to Clause 3.

21.5.3. Immediately on receipt of these clarifications, the Evaluating Officers; predefined in the system for the bid, will finalize the list of responsive bidders. They will log on to the site with their DSC and record their comments on the Technical evaluation page in the system. The Officer Inviting the Bid if also the accepting authority, shall log on to the system with his digital signature and check technical evaluation. He can either accept or pass on to the evaluating officers for re-evaluation. Upon acceptance of technical evaluation by the Accepting authority in the system, the system shall automatically generate letter to all the responsive bidders and the system shall forward the letter to all the responsive bidder that their technical bid has been evaluated responsive with respect to the data/information furnished by him and the letter shall also intimate him the date & time of opening of financial bid. The system shall also inform the non- responsive bidders in their email ID that their bid has been found non- responsive.

21.6 The Technical evaluation of all the bids will be taken up as per the information furnished by the Bidders. If any of the information/ statements/documents/ /certificates furnished by the bidder is found to be false/fabricated/bogus, his registration in the portal shall be blocked and the bidder is liable to be blacklisted.

21.7 After technical evaluation of the bidders and selection of the qualified bidders, the financial bids of the technically qualified bidders shall be opened on the due date of opening. Members of the bid opening committee log on to the system in sequence and open the financial bids for the technically qualified bidders. The opening of financial bid by the opening officer using their DSC shall decrypt the financial bids.

21.7.1 Opening of price bid and evaluation of lowest bidder is subject to satisfaction of other qualification information asked for in the bid pursuant to

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Clause-3.

- 21.7.2 The Officer inviting Bid shall ensure that all the Bidders are individually intimated about the date, time & venue of opening of the financial bid along with the responsiveness of the Technical Bid.
- 21.7.3 The Financial Bid will be opened on the notified date & time in the presence of bidders or their authorized representative who wish to be present.
- 21.7.4 At the time of opening of "Financial Bid", the names of the bidders whose bids were found responsive in accordance with Sub-Clause 24.1 will be announced. The bids of only those bidders will be opened. The remaining bids will be rejected.
- 21.7.5 The responsive bidders names, percentage rates, any discounts and withdrawals, and such other details as the officer inviting the tender may consider appropriate, will be announced by him or his authorized representatives at the opening.
- 21.7.6 Special conditions and/or rebate/discount offer if any uploaded to the system shall be declared and recorded first.
- 21.7.7 The Financial bid of the bidders shall be opened one by one by the designated officers. The system shall auto-generate the Comparative statement.
- 21.7.8 The Bidder can witness the principal activities and view the documents/summary reports for that particular work by logging on to the portal with his DSC from anywhere.

22. PROCESS TO BE CONFIDENTIAL:

- 22.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful bidder has been announced. Any effort by a bidder to influence the officer inviting the bid, processing of bids or award decisions may result in the rejection of his bid.

23. CLARIFICATION OF BIDS:

- 23.1 To assist in the examination, evaluation, and comparison of bids, the officer inviting the bid may, at his discretion, ask any bidder for clarification of his rates including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable or by e-mail, but no change in the bid price or substance of the bid shall be sought, offered.

23.2 Subject to sub-clause 23.1 , no bidder shall contact the officer inviting the bid on any matter relating to his bid from the time of the opening to the time the contract is awarded. If the bidder wishes to bring additional information to the notice of the officer inviting the bid, it should do so in writing.

#### 24. EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS:

24.1 During the detailed evaluation of “Technical Bids”, the officer inviting the bid will determine whether each bid:-

- 24.1.1 Whether the Bid security is confirmed by issuing institution/Bank.
- 24.1.2 Has submitted legible documents for evaluation
- 24.1.3 Meets the eligibility criteria defined in Clause 3 and;
- 24.1.4 Is substantially responsive to the requirements of the bidding documents.

24.2 During the detailed evaluation of the “Financial Bid”, the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings.

24.3 A substantially responsive “Financial Bids” is one, which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one

- 24.3.1 Which affects in any substantial way the scope, quality, or performance of the works.
- 24.3.2 Which limits in any substantial way, inconsistent with the bidding documents, the right of the officer inviting the bid or the bidder's obligations under the contract or
- 24.3.3 Whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

24.4 If a “Financial Bid” is not substantially responsive, it will be rejected by the officer inviting the bid, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

24.5 On opening of the price bid the system shall arrange the financial bids in order of their value (L1 first, followed by L2, L3 ....) for subsequent evaluation. The evaluation status (Sheet) will be visible to all the participating bidders after opening on their respective logins. Each activity is recorded in the system with date and time stamping.

#### 25. EVALUATION OF BIDS:

25.1 If the officer inviting the Bid in his opinion judges that the price quoted by the lowest qualified bidder is high or a special condition imposed by the bidder is to be

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withdrawn, the bidder shall be invited for negotiation by the officer inviting the Bid or by an officer authorised by him in writing.

#### F. AWARD OF CONTRACT

##### 26. AWARD CRITERIA:

- 26.1 The officer inviting the bid will award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest evaluated price.
- 26.2 On acceptance of the tender, the Contractor shall name in writing his accredited representative(s) who would be responsible for taking instructions from the Engineer-in-Charge.
- 26.3 Competent Authority reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
- 26.4 The successful bidder registered under other State Government / MES / Railways / CPWD in equivalent rank has to register under state PWD before signing of the agreement if required.

##### 27. OPTIONS IF THE BIDDER BACKS OUT FROM BIDDING PROCESS:

- 27.1 In case the 1st lowest Bidder or even the next lowest Bidder withdraw in series one by one, thereby facilitating a particular Bidder for award, then they shall be penalized with Appropriate action i.e. Cancelled the (registration of OPWD) and / or suspend/prohibit/debar/blacklist from participating in bidding in any contract of the State as per Guiding of OPWD/Govt. of Odisha Guiding.
- 27.2 The bidding process shall be deemed to be complete after the issue of letter of acceptance. If the bidder fails to sign the agreement within the stipulated period mentioned under clause 29.2, his bid security shall stand forfeited.

##### 28. RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS:

- 28.1 The competent authority on behalf of Rourkela Smart city Limited, does not bind him to accept the lowest or any other tender and reserves to him the authority to reject any or all the tenders received without assigning any reason.
- 28.2 All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.

##### 29. NOTIFICATION OF AWARD AND SIGNING OF AGREEMENT:

- 29.1. In the E-Procurement Portal, the system shall generate the template of award letter and the Officer Inviting the Bid shall mention the amount of Performance Security and additional security required to be furnished in the letter and intimate the bidders in his e-mail ID. The issue of the letter of acceptance shall be treated as closure of the Bid process and commencement of the contract.
- 29.2. The bidder shall within 15 days of issue of letter of acceptance, furnish the Performance security & additional Performance security (if any) in the form & the work programme & shall sign the agreement in prescribed format, failing which the Engineer-in-Charge shall without prejudice to any other right or remedy available in law, be at liberty to either suspend/prohibit/debar/blacklist from

participating in bidding in any contract of the State or Cancelation as per OPWD code/ of Empanelment (registration of from OPWD) action will be taken or both. The agreement will incorporate all agreements between the officer inviting the bid and the successful bidder. If L1 bidder does not turn up for agreement after finalization of the tender, then he will suspend/prohibit/debar/blacklist from participating in bidding in any contract of the State as per OPWD Code and /or Cancelation of Empanelment (registration of from OPWD) action will be taken . In that case, the L2 bidder, if fulfils, required criteria would be called for drawing agreement for execution of work subject to the condition that L2 bidder negotiates at par with the rate quoted by the L1 bidder otherwise the tender will be cancelled.

In case a contractor is blacklisted, it will be widely published and intimated to all departments of Government and also to Govt. of India agencies working in the state.

(Amendment to Para-3.5.14 Note-I of OPWD Code Vol.-I by inclusion).

29.2.1 Following documents shall form part of the agreement.

29.2.1.1 The notice inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance thereof together with any correspondence & documents leading thereto & required amount of performance security including additional performance security as per sub clause 29.2 hereof.

29.2.1.2 Standard Bid Document P.W.D. Form P-1

- 29.3 The letter to proceed with the work shall be issued by Engineer-in-charge only after signing of the agreement. The notification of award will constitute the formation of the contract subject only to the furnishing of performance security and additional performance security in accordance with the provisions of the agreement.
- 29.4 On acceptance of the composite bids by the competent authority the letter of award will be issued by the Engineer-in-Charge of the major component of the work.
- 29.5 Upon signing of the agreement by the successful bidder, the Engineer-in-Charge will promptly notify the other bidders that their bids have been unsuccessful.

30. CORRUPT OR FRAUDULENT PRACTICES:

30.1. The Engineer-in-Charge will reject a proposal for award if he determines that the bidder recommended for award has been engaged in corrupt or fraudulent practices in competing for the contract in question. He will report to the Officer Inviting Bid / next higher authority.

30.2 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.

**DETAILED TENDER CALL NOTICE**

Sealed percentage rate bids are invited in double cover system from the Civil Contractors of 'B' Class contractors registered with the State Government and contractors of equivalent Grade / class registered with Central Government / MES / Railways having registration for Civil, Electrical and P.H works for execution of Civil / E.I. / P.H. works on production of definite proof from the appropriate authority in prescribed form to be eventually drawn in P.W.D. FORM P-1 for the work/Project : "Construction of Roofing work in Panposh Market on Percentage Rate Basis." an estimated cost of Rs. 59,97,506/- Fifty Nine Lakhs Ninety Seven Thousand and Five Hundred Six Only) Excluding GST Contractors not registered with Govt. of Odisha can participate in the e- procurement after necessary enrolment in the portal but have to subsequently register themselves with the appropriate registering authority of the state Govt. before award of the work as per prevalent registration norms of the state.

- a) This tender is of composite nature and consisting of Civil, Electrical, fire fighting and PH works.
- b) This detailed Tender Call Notice along with the Pre-Bid Meeting minutes, clauses mentioned herein shall form a part of the contract and agreement.

2. The Bid documents are available on official website of Government: <https://www.tendersodisha.gov.in> & [www.rmc.nic.in](http://www.rmc.nic.in) from 09.12.2025 17:00 Hrs to 29.12.2025 15:00Hrs. The last date and time of submission of Bid is as per contract data.
3. The Technical Bid documents (Cover-I) will be opened by the assigned officer in the office of Chief Executive Officer, RSCL at 16:00 Hours on 29.12.2025.in the presence of the bidders or their authorized representatives who wish to attend. After evaluation of the documents contained in Cover-I, the Cover-II containing price bid/s of the technically responsive bidder/s will be opened. The date, time and place of opening the price bid will be intimated to the eligible qualified bidders through system generated E-mails.
4. The cost of Bid documents in shape of demand draft issued from any Nationalized / Scheduled bank may be prepared in the name of RSCL(Smart City Mission Grant Fund), and payable at Rourkela for Rs.11,800/- towards tender paper cost. The online bid must be accompanied with scanned copies of demand draft towards cost of tender paper.
5. The bid is to be submitted in two covers.
  - i. Cover-I is to contain scanned copy of EMD and Cost of bid document, Registration Certificate, PAN, Profit Loss statement, GST Registration Certificate, List of similar nature of works, work in hand, affidavit, turn over certificate and all other documents required as per the relevant clauses of this DTCN. Before award of final contract, such bidders will have to produce the GST clearance certificate. ii) The similar nature of work are of following types: Laying of Paver blocks.
  - ii. Cover-II is to contain the PRICE BID duly filled in and signed by the bidder.
6. Furnishing scanned legible copy of Original Registration certificate, PAN card & GST Registration Certificate along with the Technical Bid is mandatory otherwise his/ her bid shall be declared as non responsive and thus liable for rejection.
7. Deleted
8. Deleted  
The contract will be drawn in P.W.D. P-1 contract form and will constitute all civil, electrical and PH works.

The contract shall be drawn & signed by Chief Executive Officer on behalf of Rourkela Smart City Limited.

- i. The entire works of the Agreement shall be supervised measured and check measured by the Engineer in Charge.
9. If an individual makes the application, the individual should sign (with DSC) above his full type written name and current address.
10. If the application is made by proprietary firm, it shall be signed (with DSC) by the proprietor & furnish full type written name and the full name of his firm with its current address in a forwarding letter.
11. If the application is made by a firm in partnership, it shall be signed (with DSC) by a partner holding power of attorney for the firm in which case a certified copy of the power of attorney shall accompany the application. A certified copy of the partnership deed and current address of all partners of the firm shall also accompany the application.
12. If the application is made by a limited company or a corporation, it shall be signed (with DSC) by a duly authorized person holding power of attorney for signing the application in which case a certified copy of the power of attorney shall accompany the application. Such limited company or corporation will be required to furnish satisfactory evidence of its existence along with the technical bid.
13. The tender should be strictly in accordance with the provisions as mentioned in the tender schedule. Any change in the wordings will not be accepted.
14. The work is to be completed (Construction work) in all respects within four (4) calendar months from the date of issue of work order. Before acceptance of tender, the successful bidder will be required to submit a work programme and milestone basing on the financial achievement so as to complete the work within the stipulated time and in case of failure on the part of the agency to achieve the milestone liquidated will be imposed (Amendment to Para-3.5.18 Note-VIII of OPWD Code Vol.-I).
15. All tenders received will remain valid for a period of 90 days from the last date prescribed for receipt of tenders and validity of tenders can also be extended if agreed by the tenderers and the Department
16. The tenderer shall carefully study the tentative drawings and specifications applicable to the contract and all the documents, which will form a part of the agreement to be entered into, by the accepted tenderer and detailed specifications for Odisha, and other relevant specifications and drawings, which are available. Complaint at a future date that the tenderers have not seen plans and specifications cannot be entertained.
17. The drawings furnished with the tender are tentative and subject to revision or modification as tendered during the execution as per actual necessity and detail test conducted. But the tendered rates quoted by the tenderer will hold good in case of such modification of drawings during the time of execution and shall in no way invalidate the contract and no extra monetary compensation will be entertained. The work shall however be executed as per final approved drawing to be issued by the Engineer-in-Charge as and when required.
18. By admission of a tender for the work, a tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the work, about the quality and availability of the required quantity of material, and that rates quoted by him in the tender will be adequate to complete the work according to the specifications attached thereto and that he had taken into account all conditions

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and difficulties that may be encountered during its progress and to have quoted rates including labour and materials with taxes, octroi, other duties, lead, lifts, loading and unloading, freight for all materials and all other charges necessary for the completion of the work, to the entire satisfaction of the Engineer-in Charge of the work and his authorized subordinates. After acceptance of the contract rate Government will not pay any extra charges for any reason in case the contractor claims later on to have Misjudged as regard availability of materials, labour and other factors. For the purpose of estimate, the approved quarry lead is to be provided judiciously. Engineers in charge would be responsible for ensuring the quality of the materials supplied. The contractors would, however, be responsible for procurement of material from authorized sources and voluntarily disclose the source of procurement for the purpose of billing. Besides, the bidder would be required to submit the details of quarry for procurement while submitting the bids.

(Amendment to Para-3.4.16 (a) (vii) of OPWD Code Vol.-I by substitution). Design,

19. The bid must be accompanied by Bid security accepting, that if the bidder withdraw or modify its bid during the period of validity i.e. not less than 90(Ninety) days from the bid due date or if the bidder is awarded the contract and fail to sign the contract or to submit a performance security and Addition Performance Security. Tender Not accompanied with Scanned copy of Bid security shall be declared as non-responsive and thus liable for rejection. The bid security should remain valid minimum of 45(Forty-five)days beyond the bid validity period
20. The tender should be accompanied with the Scanned copies of the valid Registration certificate of Class of Contractor , GST Registration Certificate and PAN card which are mandatory, otherwise his/her bid shall be declared as non- responsive and thus liable for rejection.
21. The tender containing extraneous conditions not covered by the tender notice are liable for rejection and quotations should be strictly in accordance with the items mentioned in the Tender Call Notices. Any change in the wording will not be accepted.
22. The department reserves the right of authority to reject any or all tenders received without assigning any reason whatsoever.
23. The earnest money of the L-1 bidder will be retained and will be dealt with as per terms and condition of O.W.P.D Code.The retention of E.M.D with the Department will carry no interest.
24. The Engineer-in-charge will notify the bidder / tenderer whose bid has been accepted of the award prior to expiration of the validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the conditions of Contract called the "Letter of Acceptance") will state the sum that the Engineer-in-charge will pay the contractor in consideration of the execution and completion of the Works by the contractor as prescribed by the contract (Hereinafter and in the contract called the "Contract Price").

The Notification of award will constitute the formation of the contract, subject only to the furnishing of a performance security (Initial Security Deposit) in form of Deposit receipt of Schedule Bank / Kissan Vikash Patra / Post Office Savings Bank Account/National Savings Certificate/ Post Office Time Deposit Account/Bank Guarantee of Nationalised Bank /Schedule Bank of India counter guaranteed by local Branch at Rourkela with validly of One year / duly pledged in favour of the Chief Executive Officer Rourkela Smart City Limited. Rourkela & payable at Rourkela and in no other form, which including the amount already deposited as bid security (earnest money) shall be 2% of the value of the tendered amount and sign the agreement

in the P.W.D. form No. P-1 (Schedule XLV No. 61) for the fulfilment of the contract in the office of the Chief Executive Officer and payable at Rourkela or as directed. The security deposit together with the earnest money and the amount withheld according to the provision of P-1 agreement shall be retained as security for the due fulfilment of this contract and additional performance security in accordance with the provisions of the agreement.

The agreement will incorporate all agreements between the officer inviting the bid/ Engineer-in Charge and the successful bidder within 15 days following the notification of award along with the Letter of Acceptance. The successful bidder will sign the agreement and deliver it to the Engineer-in Charge. Following documents shall form part of the agreement.

- a) The notice-inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance thereof together with any correspondence leading thereto & required amount of performance security including additional performance security.
- b) Standard P.W.D. Form P-1 with latest amendments. Failure to enter in to the required agreement and to make the security deposit as above shall entail either he will suspend/prohibit/debar/blacklist from participating in bidding in any contract of the State as per OPWD CODE and or Cancelation of Empanelment (registration of from ELBO/OPWD) or both No contract (tender) shall be finally accepted until the required amount of initial security money is deposited. The security will be refunded after 12 (Twelve) months of completion of the work and payment of the final bill and will not carry any interest. As concurred by Law Department & Finance Department In their U.O.R. No 848, dt.21.05.97 .O.R.No.202 W.F.D. dt.06.03.98 respectively the E.M.D. will be forfeited case, where tenderers back out from the offer before acceptance of tender by the competent authority.
25. The contractor should be liable to fully indemnify the Department for payment of compensation under workmen compensation act. VIII of 1923 on account of the workmen employed by the contractor and full amount of compensation paid will be recovered from the contractor.
26. Tenderers are required to liable by fair wages clause as introduced by Govt. of Odisha Works Department letter No.VII (R&B) 5225, dt.26.2.55 and No.II, M-56/61-28842 (5), dt.27.9.61.
27. The contractor shall bear cost of various incidentals, sundries and contingencies necessitated by work in full within the following or similar category.
  - a) Rent, royalties, cess and other charges of materials, Octroi and all other taxes except prevailing GST from time to time. Ferry tolls, conveyance charges and other cost on account of land buildings including temporary building required by the tenderer for collection of materials, storage, housing of staff or other purpose of the work are to be borne by the contractor at his own cost. No rent will be payable to Govt. for temporary occupation of land owned by govt. at the site of the work for bonafide use of the land for work and all such construction of temporary nature by the contractor shall be done after obtaining written permission from the Engineer-in-Charge of Civil portion of the work and all such construction shall have to be demolished and debris removed and ground made good and cleared after completion of the

work at no extra cost.

- b) Royalty will be recovered from each bill as notified by Govt. from time to time unless K Forms are enclosed. Refund of royalty at later date after passing of the bills cannot be entertained as the recovery of royalty is being credited to revenue.
- c) Labour camps or huts necessary to a suitable scale including conservancy sanitary arrangements therein to the satisfaction of the local labour laws and health authorities shall have to be provided by the Contractor.
- d) Arrangement of suitable water supply including pipe water supply where available for the staff and labour as well as for the execution of the work is sole responsibility of the Contractor and no extra cost for carriage of water will be entertained.
- e) All fees and dues levied by Municipal, Canal or Water Supply Authorities are to be borne by the Contractor.
- f) Suitable safety equipments and dresses, gloves, life belts etc. for the labour engaged in risky operations are to be supplied by the contractor at his own cost.
- g) Suitable fencing barriers, signals including paraffin and electric signals where necessary at work and approaches in order in project the public and employees from accident has to be provided by the Contractor at his own cost.
- h) Compensation including cost of any legal suit for injury to persons or property arising out of execution of the work and also any sum, which may become payable due to operation of the workmen compensation act, shall have to be borne by the contractor.
- i) The contractor has to arrange adequate lighting arrangements for the work wherever necessary at his own cost.

29. No payment will be made for layout, benchmark, level pillars, profiles and benching and levelling the ground required, which has to be carried out by the contractor at his own cost. The rates to be quoted should be for finished items of work inclusive of carriage of all materials and all incidental items of work.

30. After the work is finished all surplus materials should be removed from the site of work, preliminary work such as vats, mixing platforms, etc. should be dismantled and all materials removed from the site and premises left neat and his should be inclusive in the rates. No extra payment will be made to the Contractor in this account.

31. It should be understood clearly that no claim what-so-ever will be entertained to extra items of works quantity of any item besides estimate amount unless written order is obtained from the competent authority and rate settled before the extra items of work or extra quantity of any items of work is taken up.

32. The tenderers shall have to abide by the C.P.W.D. safety code rules introduced by the Govt. of India, Ministry of Works and Housing & Supply in their standing order No.44150, dt.25.11.57.

33. No part of the contract shall be sublet without written permission to the concerned Engineer In Charge or transfer to be made by the power of attorney authorizing others to receive payment on contractor's behalf.

34. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms and conditions of contract and other necessary documents can be seen in all the offices issuing the documents and office of the under signed during office hours every day except on Sundays and Public Holidays till last date of sale and receipt of tender papers. Interested bidders may obtain further information at the same address. But it must be clearly understood that tenders must be received in order and to instructions in complete shape. Incomplete tender is liable for rejection.

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35. No Relation Certificates.

The contractor shall furnish a certificate along with the tender to the effect that he is not related to any officer in the rank of an Assistant Engineer & above Rourkela Smart City Limited. or Assistant/Under Secretary & above in the Department. If the fact subsequently proved to be false, the contract is liable to be rescinded. The earnest money & the total security will be forfeited & he shall be liable to make good to damages the loss or damages resulting from such cancellations. The proforma for no relationship certificate is contained in a separate sheet vide Schedule-A

36. Payment for variation in price : **Not Applicable**

36(a) Deleted

36.(a) (ii) Deleted

36.(b) Deleted

36( c) Deleted.

36(d) Deleted.

36(e) APPLICATION OF ESCALATION CLAUSE: Deleted

Price/rates or Firm during pendency of the contract/execution of Contract

37. If any advance / Secured advance is granted by the Department the same will bear Interest at the rate of 18% P.A.

38. All items of work as per schedule of quantities of this tender should conform to Odisha Detailed Standard Specification. I.R.C. & I.S.I. Codes & Bridge code section I, II, III, IV & VII & latest design criteria for pre-stressed concrete bridge specially for Roads & Bridges issued by MoRT&H, Government of India, Compacting shall have to be carried out with help of mechanical vibrators from the range of I.S.:2505, I.S.:2006, I.S.:2514. I.S.:4656.

39. Centring & Shuttering shall be with suitable steel shutters in side of which shall be lined with suitable sheeting and made leak proof and watertight. All joints in formwork shall be properly sealed preferably with P.V.C. joints sealing tapes & compounds.

40. Form work including complete false work shall be designed by the Contractor without any extra cost to employer and the Department will have the right to inspect scaffolding, centering and shuttering made for the work and can reject partly or fully such structures, if found defective in their opinion. Any eventually such as loss of lives or properly due to failure of centering and shuttering shall be the responsibility of the Contractor regarding compensation of all claims thereof.

41. Cement shall be used by bags and weight of one bag of Cement should be 50 (fifty) Kg. net & the Engineer-in-Charge or his representative shall have the right to test the weight & quality from time to time.

42. The tenderers shall make all arrangements for proper storage of materials but no cost for raising shed for store and pay of security guard etc. will be borne by the Department.

The department is not responsible for any theft or loss of materials at site. It is contractor's risk. Under any such plea, if the tenderer stops the work he shall have to pay the full penalty as per clauses of the contract.

43. Approach road to site of work for transport of materials to site of work is

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sole responsibility of the Contractor. Statutory traffic restriction in the town area for Transport of construction material to site of work is to be taken in to consideration before tendering and no consideration for extra time or compensation thereof shall be considered.

44. The contractor should at his own cost arrange necessary tools and plants required for efficient execution of work and the rates quoted should be inclusive of transportation, hire and running charges of such plant and cost of consumables.
45. The contractor shall properly co-ordinate with the execution of P.H., Fire and Electrical works and take care of the safety of workers.
46. The machineries if available, with the department may be supplied on hire as per charges noted in the enclosed statement and may be changed from time to time subject to the condition that the contractor will execute in advance an agreement with the Engineer-in-Charge.
47. No claim whatsoever will be entertained for supply of machineries. No extension of time will be granted to the contractor under this ground under any circumstances.
48. The tenderer should furnish along with their tender a list of works executed during the last five years duly certified by the concerned Engineer-in-charge indicating the satisfactory completion for Civil, P.H & Electrical works as per the Performa enclosed in a separate sheet of Schedule-C.
49. The tenderer or any of its constituent partners of whose contract for any work has been rescinded or who has abandoned any work in the last five years prior to the date of Bid shall be debarred from qualification. The tenderer is to furnish an affidavit at the time of submission of tender paper about the authentication of tender documents. An affidavit to this effect is to be furnished in Schedule-E and information in Schedule-D.
50. It should be clearly understood that:
  - a) The joints of the bars are to be provided with lapping, welds or bolts nuts as well be directed by the Engineer-in-charge.
  - b) Concrete test specimens 150mm × 150mm × 150mm in size (whether plain or reinforced concrete) for the testing shall be taken for each structural member by a representative of the contractor in the presence of responsible officer of the rank not lower than that of an Assistant Engineer or sub-Divisional Officer. The contractor shall bear the cost so involved in testing. The test specimen in cube should be carried out in the Departmental Control and Research Laboratory Cuttack or Rourkela. Test should be carried out in accordance with the stipulation in Bridges code section-III.
  - c) Test specimens shall be formed carefully in accordance with the standard method of taking test specimen and no plea shall be entertained later on the grounds that the casting of the test specimen was faulty and that the result of the specimen did not give a correct indication of the actual quality of concrete.
  - d) Plain concrete and reinforced concrete specimens will be tested in Quality Control and Research Laboratory as per direction of Engineer-in-charge. Cost of testing of all specimens and samples will be borne by the Contractor.
51. The rates quoted should be inclusive of carriage of water required in connection with execution of the work. No claim for carriage of water whatsoever will be entertained.
52. The contractor shall employ one or more Engineering Graduate or Diploma holders as apprentice at his cost if the work as shown in the tender exceeds Rs.2,50,000.00. The apprentices may be selected by the Chief Executive Officer, Rourkela Smart City Limited. The period of employment will commence within one month after the date of work order and would last till the date, when 90% of the work

is completed. The fair wage to be paid to the apprentices should not be less than the emolument of personnel of equivalent qualification employed under Government.

53. List of tool & plants in running condition in possession of contractor is to be furnished in a separate sheet.

54. It is the responsibility of the contractor to procure and store explosive required for blasting operation if necessary. Department may render necessary possible help for procuring license.

55. For submission of a tender for the work, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the work about the quality and availability of the required quantity of materials, Medical aid, labour and Flood stuff etc and that the rates quoted by him in the tender will be adequate to complete the work according to the specifications attached thereto and that he had taken in to account all conditions and difficulties that may be encountered during its progress and to have quoted labour rates and materials with taxes, Octroi and other duties lead, lifts, loading and unloading freight for materials and all other charges necessary for the completion of the work to the entire satisfaction of the Engineer-in-charge of the work and his authorized subordinates. After acceptance of the contract rates RSCL will not pay any extra charges for any reason in case the contractor finds later on to have misjudged the conditions as regards the availability of materials, labour and other factors. The contractor will be responsible for any misuse, loss or damages due to any reasons whatsoever of any departmental material during the execution of work. In case of loss, damage or misuse, recovery at the rate at 5 times the cost of the materials will be deducted from the bills or his other dues.

56. The prevailing percentage of I.T. Department of the gross amount of the bill towards income tax will be deducted from the contractor's bill.

57. Deleted.

58. It must be clearly understood that under no circumstances any interest is chargeable for the dues or additional dues if any payable for the work executed and final bill pending disposal due to any reason whatsoever.

59. No extra payment will be made for removing spreading and consolidating salvaged metals and materials.

60. Under section 12 of contractors labour (Regulation and Abolition) Act. 1970 the contractor who undertakes execution of work through labour should produce valid license from licensing authorities of labour Department.

61. Performance Security:

61.1 If the rate quoted by the bidder is less than 15% of the tendered amount, then such a bid shall be rejected and the tender shall be finalized basing on merits of rest bids. But if more than bid is quoted at 14.99% (Decimals up to two numbers will be taken for all practical purpose) less than the estimated cost, the tender accepting authority will finalize the tender thorough a transparent lottery system where all bidders / their authorized representatives, the concerned CEO and CFO will remain present.

(Amendment to Appendix-IX, Clause-36 of OPWD Code Vol.-II by inclusion).

61.2 Additional performance security shall be obtained from the bidder when the bid amount is less than the estimated cost put to tender. In such an event, the bidders who have quoted less bid price/rates than the estimated cost put to tender shall have to furnish the exact amount as per mentioned in below table i.e.

S.No	Range of Difference between the estimated cost put to tender and Bid amount	Additional Performance Security to deposited by the Successful Bidder
i	Below 5%	No Additional Performance Security
ii	From 5% and above and below 10%	50% of (Difference between Estimated cost put to tender and Bid Amount)
iii	From 10% and above	150% of (Difference between estimated cost put to tender and Bid Amount)

as Additional Performance Security in shape of Demand draft/ Bank Guarantee from Nationalised Bank, Schedule Bank for validly of one year/ Term Deposit Receipt of Schedule Bank/ Nationalized Bank pledged in favour of the Chief Executive Officer, Rourkela Smart City Limited and payable at Rourkela before signing the Agreement. The additional performance security in any other form will not be accepted. If the Contractor fails to complete the work, the amount so furnished as additional performance security will be forfeited in addition to the other penal clauses, if any to be imposed.

RSCL has already been appointed Project Management Consultant to supervise “Construction of Roofing work in Panposh Market on Percentage Rate Basis” and his role & responsibility as follows :

- Project Planning and Construction Supervision
- Supervision Manual
- Design, drawings and tender specifications
- Material Testing Quality Control
- Environmental Protection and Safety during Construction
- Certification of Interim and final payments
- Contract Administration
- Operation & Maintenance Manual Approval
- As Built Drawing approval
- Certification in Defect Liability Period
- Any Contract Dispute and assist in case of Arbitration.

The contractor has to assist and obey the technical assistants and guidance's of the consultant.

62. Sample of all material - The contractor shall supply sample of all materials fully before procurement for the work for testing and acceptance as may be requiring by the concerned Engineer in Charge.
63. All reinforced cement work should conform to Odisha Detailed specification and should be of proportion as per Contract Agreement having desired compressive strength (in work test) in 15 Cm cubes at 28days, after mixing and test conducted in accordance with IS 456 and IS 516.
64. Bailing out of water from the foundation, pipeline trenches S. Tanks / Soak pits/ Sumps/ M.H. etc. either rainwater or sub-soil water if necessary should be borne by the contractor. No payment will be made for benchmarks. Level pillars, profiles and benching and levelling the ground wherever required. The rates quoted should be for finished items of works inclusive of these incidental items of work. It should be understood clearly that no claims whatsoever would be entertained.
65. The tenderer shall have to abide by the C.P.W.D. safety code rules introduced by the Government of India, Ministry of work Housing and Supply in their standing order No- 44150 dt .25.11.57.

66. The Contractor will have to submit to the PMC monthly return of labour both skilled and unskilled employed by him on the work.
67. All fittings for doors and windows ,P.H. ,Fire & Electrical works as supplied by the Contractor should be of best quality and conform to relevant I.S. specification and should be got approved by the Engineer-in-charge/PMC of the respective wing before they are used on the work.
68. After completion of the work the contractor shall arrange at his own cost all requisite equipments for testing buildings, if found necessary and bear the entire cost of such test, including the inspection of Electrical Inspectorate.
69. The Tenderer should furnish along with their tender 1. A list of works, which are at present in their hand Schedule-F 2. List of work executed (Schedule-C) in the prescribed proforma(s) enclosed herewith in appropriate place of bid document.
70. All reinforced cement concrete works should be finished smooth Extra charges for plastering if required to any R.C.C. structures like roof slab, Columns, Chajjas, fins, parapets, shelves etc. shall not be paid.
71. Deleted
72. Deleted
73. The tenderer may at his option quote reasonable rate for each item of work carefully so that the rate for one item should not be unworkable low and for others too high.
74. The contractor has to arrange the samples of materials required for execution to be got tested and approved by the Department before taking up the work and during course of execution required from time to time. All such samples will be tested at any of the Govt. of Odisha /Govt. Of India accredited Laboratory, at the cost of the Contractor with no extra cost to the Department.
75. If there is any damage to the work due to natural calamities like flood or cyclone or any other cause during the course of execution of work or up to 24 months after completion of work or if any, imperfection becomes apparent to the work within 24 months from the date of final certificate of completion of work the contractor shall make good of all such damages at his own cost with no extra cost to the Department. No claims, whatsoever, in this regard will be entertained.
76. The K. B. Bricks should be well burnt and of good qualities. The bricks should be approved by the Engineer-in-Charge before use in the work and should confirm to the minimum strength and other criteria as per National Building Code.
77. Under Section 1 of contract labour Regulation and Abolition Act 1970 the contractor who undertakes execution of work through labour should produce valid license from the licensing authority of labour Department.
78. Standard co-efficient for linear measurement will be adopted while calculating consumption of steel and no claim whatsoever regarding difference in co-efficient of steel will be entertained. The rates quoted shall be inclusive of any eventuality of difference for co-efficient for linear measurements.
79. Engineer Contractor desirous to avail the facility of exemption of E.M.D is required to submit an affidavit to the effect that he has not yet availed the facility / participated in the tender for more than two works (Excluding this work) during the current financial year. The name of work for which participated and the authority to whom the tender was submitted must be mentioned in the affidavit, failing which the tender will be rejected.

80. That for the purpose of jurisdiction in the event of disputes if any of the contract would be deemed to have been entered into within the State of Odisha and it is agreed that neither party to the contract will be competent to bring a suit in regard to the matter by this contract at any place outside the State of Odisha.

**81. SPECIAL CONDITIONS (PART OF THE CONTRACT)**

(I) All materials before they are being used in the items of works as per this Schedule of quantities and also the finished items of work where tests are applicable shall have to be tested through the Engineer-in-charge of the respective wing at appropriate Laboratories according to the relevant I.S. specifications of the materials and the said items of works and the cost of all such tests shall have to be borne by the Contractor and the rates of the items of works should be inclusive of cost of such tests.

(II) The tests have to be planned & carried out such that the progress of work is not hampered

(III) The tests are mandatory as per the prescribed frequencies and I.S specifications. However, these are not exhaustive and the Engineer-in-charge/PMC has the right to prescribe other required test if any as will be considered from time to time.

82. In case of ambiguity between clauses of this D.T.C.N. and the P-1 contract form, the relevant Clauses of the P-1 contract form shall prevail over the D.T.C.N. The clauses not covered under P-1 contract form shall be governed by the clauses of the D.T.C.N.

83. Schedule of quantities is accompanied in Cover-II (Price Bid). It shall be definitely understood that the Government does not accept any responsibility for the correctness or completeness of this schedule and that this schedule is liable for alteration or omissions, deductions or alternations set forth in the conditions of the contract and such omissions, deductions, additions or alternations shall no way invalidate the contract and no extra monetary compensation, will be entertained.

84. In case of any complaint by the labour working about the non-payment or less payment of his wages as per latest minimum Wages Act, the Engineer in Charge will have the right to investigate and if the contractor is found to be in default, he may recover such amount due from the contractor and pay such amount to the labour directly under intimation to the local labour office of the Govt. The contractor shall not employ child labour. The decision of the Engineer in Charge is final and binding on the contractor.

85. The contractor should arrange the materials like Steel, Cement, paint and bitumen etc. of approved quality and specification at his own cost for completion of the work with the time schedule. No extension of time will be granted on the application of the contractor due to delay in procurement of materials.

86. Wastage of bars and unnecessary lapping will not be considered for measurement and payment).

87. The contractor is required to pay royalty to Govt. as fixed from time to time and produce such documents in support of their payment to the concerned Engineer in Charge with their bills, failing which the amount towards royalties of different materials as utilized by them in the work will be recovered from their bills and deposited in the revenue of concerned department.

88. Trial Boring - The foundation level as indicated in the body of the drawings are purely Tentative and for the general guidance only. The RSCL has no responsibility for the suitability of actual strata at the foundation level. The contractor has to conduct his own boring before starting the work and get the samples tested at his own cost to ascertain the S.B.C. and credibility of the strata at founding level while quoting his rates for tender the contractor shall take in to account of the above aspects.
89. Any defects, shrinkage or other faults which may be noticed within 12 (Twelve Month) months from the completion of the Construction/Installation/Fixing work arising out of defective or improper materials or workmanship timing are upon the direction of the Engineer-in-Charge to be amended and made good by the contractor at his own cost unless the Engineer for reasons to be recorded in writing shall be decided that they ought to be paid for and in case of default Department may recover from the contractor the cost of making good the works.. The RSCL will deduct retention money/ISD which will be Retention Money (5%) five percent from each running bill after correction if any by RSCL + Additional percentage to be deducted & withheld from each payment invoice after correction , if any by RSCL for repair/replacement of the work during defect liability period of 365 days from the date of completion of original work. Performance Security will be release after the Completion of Defect Liability Period (DLP) 365 days. Additional Performance security will be release after the Completion/Implementation of work.
90. From the commencement of the works to the completion of the same, they are to be under the contractors charge. The contractor is to be held responsible to make good all injuries, damages and repairs occasioned or rendered necessary to the same by fire or other causes and they hold the RSCL harmless for any claims for injuries to person or structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the contractor or any one in his employment during the execution of the work. Also no claim shall be entertained for loss due to earthquake, flood, cyclone, epidemic, riot or any other calamity whether natural or incidental damages so caused will have to be made good by the contractor at his own cost.
91. Gradation of ingredients: The coarse and fine aggregate shall meet the grade requirement as per the latest provision of relevant. I.S. Code / I.R.C. code / MoRT&H specifications.
92. Where it will be found necessary by RSCL, the Officer-in-Charge of the work shall issue an order book to the contractor to be kept at the site of the work with pages serially numbered. Orders regarding the work whenever necessary are to be entered in this book by the Rourkela Smart City Corporation Limited Officer-in-Charge with their dated signatures and duly noted by the contractor or his authorized agents with their dated signature. Orders entered in this book and noted by the contractor's agent shall be considered to have been duly given to the contractor for following the instructions of the Department. The order Book shall be the property of the Rourkela Smart city Limited and shall not be removed from the site of work without written permission of the Engineer In Charge and to be submitted to the Engineer-in charge every month.
93. The contractor should attach the certificate in token of payment deposit with the registration authority as per recent circular of the Government relating

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94. to his registration.

95. In case of any discrepancy in printing or omissions of statutory specifications or any other part or portion of the approved document during download of the bid document, the decision of the officer inviting the bid will be binding on the bidder.

95. The rates quoted by the contractor shall cover the latest approved rates of SOR excluding GST i.e., Labours, Materials, P.O.L. and Royalties. Arrangement of borrow areas i.e. Land, Approach Road to the building site etc. are the responsibility of the contractor.

96. The rate for each work of concrete items wherever dewatering is imperatively necessary the term dewatering shall mean the execution or operation of the items due to standing water as well as due to percolation of water. The quoted rates will be inclusive of this.

97. The contractor shall make requisition of claim book from the date of commencement of the work from the RSCL and shall maintain in proper P.W.D. form with pages serially numbered in order to record items of works are not covered by his contract and claimable as extra. Claims shall be entered regularly in this book under the dated signature of the contractor or his duly authorized agents at the end of each month. A certificate should be furnished along with the claim to the effect that he has no other claim beyond this claim up-to-date. If in any month there are no claims to record, a certificate to that effect should be furnished by the contractor in the claim book. Each claim must be defined and should be given as far as possible regarding the quantities as well as the total amount claimed. The claim book must be submitted by the contractor regularly by 10<sup>th</sup> and 16<sup>th</sup> days of each month for orders of the Engineer-in- Charge or competent authority. Claims not made in this manner or the claim book not maintained from the commencement of the work is liable to be summarily rejected. The claim book is the property of the Rourkela Smart city Limited and shall be surrendered by the contractor to the Engineer-in-charge after completion of the work or before recession of the contract by the Department whichever is earlier for record.

98. Number of tests as specified in I.R.C. / MoRT&H / I.S.I specification required for the construction of roads / bridges / buildings or any other structural works or any work will be conducted in any Govt. of Odisha /Govt. Of India accredited Laboratory to be decided by the Engineer-in-charge. Testing charges including expenditure for collection / transportation of samples /specimens etc. will be borne by the contractor. The collection of samples and testing are to be conducted for both prior to execution and during execution as may be directed by the Engineer-in-charge and on both the accounts the cost shall be borne by the contractor.

99. Even qualified criteria are met, the bidders can be disqualified for the following reasons, if enquired by the Department

- Making a false statement or declaration.
- Past record of poor performance.
- Past record of abandoning the work half way/ recession of contract.
- Past record of in-ordinate delay in completion of the work.
- Past history of litigation.

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100. In case the 1st lowest tenderer or even the next lowest tenderers

withdraw in series one by one, thereby facilitating a particular tender for award, then they shall be penalized with adequate disincentives with forfeiture of EMD unless adequate justification for such back out is furnished. Appropriate action for black listing the tenderers shall also be taken apart from disincentives against the tenderer.

101. The following documents which are not submitted with the Bid, will be deemed to be part of the Bid :

S.No.	Particular
1	<b>Notice Inviting tender</b>
2	<b>Instruction to the Bidder</b>
3	<b>Conditions of Contract</b>
4	<b>Contract data</b>
5	<b>Specifications</b>
6	<b>Drawings</b>
7	<b>Pre-Bid Meeting Minutes</b>

102. **ELIGIBILITY CRITERIA:**

I. To be eligible for qualification, applicant s shall furnish the followings. Non-furnishing of the following particulars shall be treated as ineligible. The facility for exemption of EMD & ISD , either in full or in part ,as per instruction/guidelines of Govt. of Odisha / OPWD Code/Govt of India/direction of Hon'ble Courts in India (with specified limitation and liberty) can be availed by intending and eligible class/category of Bidder( Contractors with Physical Disabilities/Engineer Contractors/ ST or SC Contractors/Such other Agency(s) conferred with this exemption facility if any). However this facility availed by any bidder for the above mentioned work shall be treated as genuine and admissible / Acceptable subject to submission of required documentary evidence/support in hard copy as described in DTCN and subsequent Verification of the same by RSCL..

II. Scanned copy of required E.M.D as per the Clause No. 5 (i) and Clause No.20 of DTCN.

III. Scanned copy of demand draft towards cost of tender paper as per Clause No.4 and 5(i) of DTCN.

IV. After the date & time of receipt of bid is over, the original Bid security and Demand draft towards cost of Bid documents shall be submitted in the office of the undersigned on or before date & time of opening of Bid as specified at Contract data above, and as per date mentioned in contract Data during office hours on working days failing which the bid will be rejected.

V. Scanned copy of valid Registration Certificate, PAN card along with the tender documents and the originals of all scanned documents & VAT clearance certificate in form VAT 612/GST Clearance Certificate of the successful lowest bidder only are to be produced within 5(five) days after opening of Cover-II of the tender in the office of the Chief Executive Officer, RSCL otherwise his/her bid shall be declared as non-responsive he will suspend/prohibit/debar/blacklist from participating in bidding in any contract of the State as per OPWD Code and /or Cancelation of Empanelment (registration of from OPWD) action will be taken by the competent authority. In such a situation , successful L-2 bidder will be required to produce his original documents for consideration of his tender at the negotiated rate equal to L-1 bidder

VI. License criteria as per Clause No.8 of DTCN and Schedule-H need to be furnished

VII. **Joint Ventures are not accepted**

VIII. 1. Bidder/ Firm should furnish list of similar works executed during last five years stating the Agreement No., date of commencement and completion, actual date of completion duly certified by the employer. The certificate to that effect has to be obtained from an officer not below the rank of Executive Engineer concerned with the work under report. The bidder must have completed /Substantial Completed ( 80 % of awarded cost ) any one or more "Construction of any type of Steel Structure " Works /Projects during last five years from one month prior of bid due date up to value of 50% of the Project cost i.e. Rs. 30.00 Lakhs."

Bidder should submit all the credentials along with all experience certificates. Copy of Completion Certificate / Work order / Agreement any other document in support of successful completion of job along with Reference of person under whom jobs are executed. Substantial Completion shall be based on 80 (eighty) percent value wise or more works completed under the contract and Completed value must be equal or more than **Rs. 30.00 Lakhs.**

2. The Bidder should have average annual turnover of **Rs. 30.00 Lakhs. (Rs. Thirty Lakhs )** in during last five (5) financial years. Turnover of previous year will be escalated @10% per financial year (on compound basis) shall be considered on the value of annual turnover of the preceding years and cost of completed / executed similar nature of work shall be given additional weightage of percentage per year to bring them to current price level to account for price escalation as illustrated below:

Year	Turnover	Effective cost executed work at previous completed financial year's price level
2020-21	E	1.61 x E
2021-22	D	1.46 x D
2022-23	C	1.33 x C
2023-24	B	1.21 x B
2024-25	A	1.10 x A

Similar work of previous year will be escalated @10% per financial year (on compound basis) shall be considered on the value of executed similar nature of work shall be given additional weightage of percentage per year to bring them to current price level to account for price escalation as illustrated below:

Year	Similar Work	Effective cost executed work at previous completed financial year's price level
2020-21	E	1.61 x E
2021-22	D	1.46 x D
2022-23	C	1.33 x C
2023-24	B	1.21 x B
2024-25	A	1.10 x A

**Note:** 1. Technical Bid must be accompanied by the annual turnover Certificate or Audited Financial Statement (P/L and B/S) of the Bidder for the last 5 (five) financial years, preceding the year in which the bid is submitted. In case the annual accounts for the latest financial year i.e. 2023-24 is not audited and therefore the bidder cannot make it available, the Bidder shall give an undertaking to this effect and the statutory auditor/Chartered Accountant shall certify the same. In such case, the Bidder shall provide the annual turnover for 5 (five) years preceding the year for which the Audited Annual Report is not being provided. i.e.

2019-20	2020-21	2021-22	2022-23	2023-24
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- I. Scanned copy for information regarding current litigation, debarring / expelling of the applicant or abandonment of work by the applicant in schedule "D" and scanned copy of affidavit to that effect including authentication of tender documents in schedule "E" & furnish the original affidavit in Schedule-E within 5 (five) working days of opening of Cover-II as per clause 49.
- II. No Relationship Certificate in Schedule – A
- III. List of projects under execution in Schedule-F
- IV. List of projects executed that are similar in nature to the work as per Schedule-C
- V. Affidavit of eligibility from schedule –K to O
- VI. Certificate of employment of unemployed Engineering Graduate as per format Schedule-G for 'A' Class and above Regd. Contractor
- VII. Undertaking of Bidder as per format Schedule G.
- VIII. Declaration of relation in the Dept. if any in Schedule I
- IX. MOU with Electrical Contractor in Schedule –J Not Applicable.
- X. List of equipment on Owned/lease basis in Schedule K
- XI. Affidavit for SC/ST Bidder in format Schedule-L
- XII. Affidavit for Physically Handicapped Bidder in format Schedule-M
- XIII. Affidavit for Engineering Contractor in format Schedule-N
- XIV. Affidavit for Bidder not registered in EPFO in format Schedule-O
- XV. BID CAPACITY Declaration:- Vide Works Department Office Memorandum No.6300 dtd. 16.06.2011) **Not Applicable.**

Applicants who meet the minimum qualification criteria will be qualified only if their available bid capacity at the expected time of bidding is more than the total estimated cost of the Project.

The available Bid Capacity will be calculated as under.

Assessed Available Bid Capacity=  $(A \times N \times 2 - B)$ , where

**A** = Maximum value of Civil Engineering works executed in any one year

during the last five years (updated to the current price level) rate of inflation may be taken as 10% per year(escalation factor) which will taken into account the completed as well as works in Progress.

**N** = 1.50 Year (In word One and half Year ) Number of years prescribed for completion of the works for which the bids are invited.

**B** = Value of Current price level of the existing commitments and on-going works to be completed during the next years(Period of completion of work for which Bids are invited. The Statement showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer-In-Charge not below the rank of an Executive Engineer. Escalation factor: Following enhancement factors will be

issued for the Cost of works executed and the financial figures to a common base value for works completed in India.

Year Before	Multiplying Factor
One	1.10
Two	1.22
Three	1.33
Four	1.46
Five	1.61

(Applicant should indicate actual figures of costs and amounts for the works executes by them without accounting for the abovementioned factors)

In case the financial figures and value of completed works are in foreign currency the above enhanced multiplying factors will be applied . Instead , current market exchange rate ( State Bank of India BC selling rate as on the last date of submission of the Bid) will be applied for the purpose of conversion of amount in foreign currency into Indian Rupees.

103. Time Control :- (Vide Works Department Office Memorandum No.24716 dtd.24.12.2005 and No.8310 dtd.17.05.2006) Progress of work and Re-scheduling programme.

- a)
  - i. The Engineer-in-Charge shall issue the letter of acceptance to the successful contractor.  
The issue of the letter of acceptance shall be treated as closure of the Bid process and commencement of the contract.
  - ii. Within 15 days of issue of the letter of acceptance, the contractor shall submit to the Engineer-in-Charge for approval a Programme showing the general methods, arrangements, and timing for all the activities in the Works along with monthly cash flow forecast.
  - iii. To ensure good progress during the execution of the work the contractors shall be bound in all cases in which the time allowed for any work exceeds one month to complete, 1/4th of the whole time allowed under the contract has elapsed, 1/2 of the whole of the work before 1/2 of the whole time allowed under the contract has elapsed, 3/4<sup>th</sup> of the whole of the work before 3/4<sup>th</sup> of the whole time allowed under the contract has elapsed.
  - iv. If at any time it should appear to the Engineer-in-Charge that the actual process of the work does not conform to the programme to which consent has been given the Contractor shall produce, at the request of the Engineer-in-Charge, a revised programme showing the modifications

to such programme necessary to ensure completion of the works within the time for completion. If the contractor does not submit an updated Programme within this period, the Engineer-in-Charge may withhold the amount of 1% of the contract value from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

v. An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.

vi. The Engineer-in-Charge's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer-in-Charge again at any time. A revised Programme is to show the effect of Variations and Compensation Events

c) **Extension of the Completion Date.**

If the contractor fails to maintain the required progress in terms of clause-2 of P-1 Contract or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the Municipal Commissioner (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day / month (as applicable) that the progress remains below that specified in Clause-2 of P-1 Contract or that the work remains incomplete. This will also apply to items or group of items for which a separate period of completion has been specified. Compensation @ 1.5% per month of for delay of work, delay to be completed on per Day basis. Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work or to the Tendered Value of the item or group of items of work for which a separate period of completion is originally given. The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in contract data, or the rescheduled milestone(s) in terms of Clause-2.5, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of extension of time. Withholding of this amount on failure to achieve a milestone shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However no interest whatsoever shall be payable on such withheld amount.

d) **Bonus for early completion**

**Deleted**

e) **Management meetings**

i. Either the Engineer or the Contractor may require the other to attend a management meeting. The business of management meetings shall be to review the plans for remaining work and to deal with matters

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- ii. raised in accordance with the early warning procedure.
- ii. The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

Rescission of Contract (Amendment as per letter No.10639 dt.27.05.2005 of Works Department, Odisha):- To rescind the contract (of which rescission notice in writing to the contractor under the hand of the Municipal Commissioner shall be conclusive evidence), 20% of the value of left over work will be realized from the contractor as penalty.

- 104. Building and other Construction Workers Welfare Cess @ 1% of the estimated cost as per tender notification read with latest corrigendum if any will be proportionately deducted from the contractor's bill at the time of making payment of each bill.
- 105. The tenderers are required to go through each clause of P.W.D. Form P-1 carefully in addition to the clauses mentioned here in before tendering.
- 106. A Contractor may be black listed as per amendment made to Appendix XXXIV to OPWD Code Vol.-II on rules for black listing of Contractors vide letter no.3365 dt.01.03.2007 of Works Department, Odisha.  
As per said amendment a Contractor may be blacklisted
  - a) Misbehaviour/threatening of Departmental & supervisory officers during execution of work/tendering process.
  - b) Involvement in any sort of tender fixing.
  - c) Constant non-achievement of milestones on insufficient and imaginary grounds and non-adherence to quality specifications despite being pointed out
  - d) Persistent and intentional violation of important conditions of contract.
  - e) Security consideration of the State i.e. any action that jeopardizes the security of the state.
  - f) Submission of false/ fabricated / forged documents for consideration of a tender.
- 107. The safety certificate of the E.I. work will be furnished by the agencies after getting necessary verification from the electrical inspector / equally competent authority responsible for the work prior to Energisation of the building.
- 108. Percentage rate contract (vide Works Department letter no.8310 dt.17.05.2006) In case of percentage rate tender:-
  - i. The Contractor has to mention percentage excess or less over the estimated cost (In figures as well as words) in the prescribed format appended to the tender document.
  - ii. Contractors participated in the tender for more than one work may offer conditional rebate. Rebate offer submitted in separate sealed envelope shall be opened, declared and recorded first. The rebate so offered shall be considered after opening of all packages called in the same Tender Notice. The Contractors who wish to tender for two or more works shall submit separate tender for each. Each tender shall have the Bid Identification No., Name & Sl. No. of the work (as per IFB) to which they refer, written on the envelope.

iii. Only percentage quoted shall be considered. Percentage quoted by the Contractor should be accurately filled-in figures and words, so that there is no discrepancy.

- 1) If any discrepancy is found in the percentage quoted in words and figures, then the percentage quoted by the Contractor in words shall be taken as correct
- 2) If any discrepancy is found in the percentage quoted in percentage excess/ less and the total amount quoted by the Contractor, then percentage will be taken as correct.
- 3) The percentage quoted in the tender without mentioning excess or less and not supported with the corresponding amount will be treated as excess.
- 4) The percentage quoted in the tender without mentioning excess / less supported with corresponding amount does not tally with either to percentage excess or less then it will be treated as percentage excess.
- 5) The percentage quoted in the tender without mentioning excess / less supported with corresponding amount if tallied with the percentage then it will be treated as to which side the amount tallies.
- 6) The Contractor will write percentage excess/ less up to two decimal points only.
- 7) The tender shall be written legibly and free from erasures, over writings or corrections of figures. Corrections, over writings & interpolations where unavoidable should be made by making out, initialing, dating and rewriting.

iv. In the contract P1 time is the essence. The contractor is required to maintain a certain rate of progress specify in the contract.

v. The quantity mentioned can be increased or reduced to the extent of 10% for individual items subject to a maximum of 5% over the estimated cost. If it exceeds the limit stated above prior approval of competent authority is mandatory before making any payment.

vi. The period of completion is fixed and cannot be altered except in case of exceptional circumstances with due approval of next higher authority.

vii. Bills for percentage rate tenders shall be prepared at the estimated rate for individual items only and the percentage excess or less shall be added or subtracted from the gross amount of the bill.

APPROVED

Chief Executive Officer  
Rourkela Smart City Ltd.

Tenderer (s) is/are required to submit the information in the following Schedules

**SCHEDULE - A**  
**CERTIFICATE OF NO RELATIONSHIP**

/We hereby certify that I/We\* am/are\* related / not related(\*) to any officer of Rourkela Smart City Limited of the rank of Assistant Engineer & above and any officer of the rank of Assistant /Under Secretary and above of the Works Department, Govt. of Odisha I/We\* am/are\* aware that, if the facts subsequently proved to be false, my/our\* contract will be rescinded with forfeiture of E.M.D and security deposit and I/We\* shall be liable to make good the loss or damage resulting from such cancellation.

(\*) - Strike out which is not applicable

Signature of the  
Tenderer Date:-

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**SCHEDULE – B**

**A. Brief Company profile**

SL.NO.	PARTICULARS Name of Bidder	DESCRIPTION OR DETAILS
1	Name of Bidder	
2	Legal status of Bidder (company, Pvt. Ltd., LLP etc.)	
3	Main business of the Bidder	
4	Registered office address	
5	Incorporation date and number	
6	GST Registration Certificate ( State And Central)	
7	PAN details	
8	Primary Contact Person (Name, Designation, address, mobile number, fax, email)	
9	Secondary Contact Person (Name, Designation, address, mobile number, fax, email)	
10	EMD	

**B. Certificate of Incorporation**

(To be submitted by sole Bidders)

**C. Financial Turnover**

(To be submitted by Sole Bidder)

The financial turnover of the company is provided as follows as per Clause no 102 of DTCN

	2020-21 (Y5)	2021-22 (Y4)	2022-23 (Y3)	2023-24 (Y2)	2024-25 (Y1)
Annual Turnover					

Copy of audited financial statements of last five financial years or declaration from the appointed Chartered Accountant to be provided as proof of the financial turnover with UDIN no. on its certificate.

SCHEUDLE – C

WORK EXPERIENCE

LIST OF SIMILAR NATURE OF PROJECTS EXECUTED AS PER CLAUSE NO 102  
OF

i.

S.N o.	Name of Emplo yer	Name of locati on and name of work	Contra ct price in Indian Rupees / Agree ment no.	Maj or Item s of wor ks	Date of starting the work as per Agree ment	Stipulat ed date of comple tion of the work as per Agree ment	Actu al date of com plet ion of the work	Comple tion Value of the Project	Reason s for delay in starting / comple tion if any
1	2	3	4	5	6	7	8	9	
1									
2									
3									
4									
5									
6									
7									

Note: The above information is to be certified by the Engineer in Charge / Employer not below the rank of Executive Engineer vide Completion Certificate.

Signature of the Tenderer

Date.

**SCHEDULE – D**

**INFORMATION REGARDING CURRENT LITIGATION, DEBARRING EXPELLING  
OF  
TENDERER OR ABANDONMENT OF WORK BY THE TENDERER**

1	a)	Is the tenderer currently involved in any litigation relating to the works.	Yes / No
b) If Yes : given details:			
2		Has the tenderer or any of its constituent partners been debarred/ expelled by any agency in India during the last 5 years.	Yes / No
3	a)	Has the tenderer or any of its constituent partners failed to perform on any contract work in India during the last 5 years.	

b) If yes, give details

Note:

If any information in this schedule is found to be incorrect or concealed, qualification application will summarily be rejected.

Signature of Tenderer

**SCHEDULE – E**  
**AFFIDAVIT**

1. The undersigned do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither my / our firm / company / individuals \_\_\_\_\_ nor any of its constituent partners have abandoned any road/ bridge/Irrigation /Buildings or other project work in India nor any contract awarded to us for such works have been rescinded during the last five years prior to the date of this bid.
3. The undersigned hereby authorise(s) and request(s) any bank, person, firm or Corporation to furnish pertinent information as deemed necessary and as requested by the Department to verify this statement or regarding my (our) competency and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested and agree to furnish any such information at the request of the Department.

(Signature of  
Tenderer)  
Title of Officer  
Name of Firm  
Date:

Original Affidavit sworn before Notary Public or Executive Magistrate\

**Schedule-F**

**EXISTING COMMITMENTS AND ON-GOING WORKS:**

i.

S.No.	Description of works	Place & State	Contract N.o.	Name & Address of Employer	Value of Contract ('In lakh)	Stipulated Period of Completion	Value of work s* remaining to be completed ('In lakh)	Anticipated date of completion

## **Schedule-G**

### **Certificate of Employment of Unemployed Graduate Engineer (For Above A Class Contractors only)**

I/We hereby certify that at present , the following Engineering Personnel are working with me/in our firm/Company and their bio-data are furnished below:

:

S.N o.	Name of Engineering Personnel appointed for supervising Contractor s work with Address	Qualificatio n	Date of Appointment	Monthly Emolumen ts	Whether full time engageme nt and continuous	if they are superannuated/ retired/dismissed or removed personnel from State Govt. /Central Govt./ PSU/Pvt. Companies or any one ineligible for Government Service
1	2	3	4	5	6	7
2						
3						
4						
5						
6						
7						

## Schedule-H

### UNDERTAKING

This is to certify that

1. My firm has neither been associated , directly or indirectly , with the Consultant or with any other entity that has prepared the design ,specifications, and other documents for the Project nor has any person associated with been proposed as Project manager for the Contract.
2. My firm has not engaged any agency and any of its affiliates engaged by the Engineer in Charge to provide Consulting services for the preparation or supervision of this work.
3. My firm has not engaged any Engineer of Gazetted rank employed in Engineering or Administrative duties in an Engineering Department of the Government of Odisha or other Gazetted Officer retired from Government Service during last two years without prior permission of the Government of Odisha in writing before submission of this tender. I am aware that my contract is liable to be cancelled if either i or any of my employees is found any time to be such a person who had not obtained the permission of the Government of Odisha as aforesaid.
4. I/We have visited the site and have fully acquainted with the local condition regarding the materials labour and factors pertaining to work for completion in all respect before submitting the tender.
5. I/We have carefully studied the conditions of the Construction,specification, contract condition and all other documents relating to this work and agree to execute the same accordingly.
6. I/We solemnly pledge that I/We shall sincere in discharging my/our duties as responsible contractor and complete the work within the prescribed time limit. In case there are deviation from the Construction Programme , I/We shall abide by the decision of Engineer -In-Charge for revision of programme and arrange for the labours, materials, equipments etc accordingly.
7. In the event of award of the work to me/us. I/We undertake the entire responsibility for the structural stability to reconstruct/replace the whole or part of the Component of the structure in the event of failure or improper functioning /Improper Construction within a period of one year from the date of completion without asking extra payment from the account of department.
8. I/We undertake that I/We shall not claim any escalation of cost on account of material,labour taxes from any account in connection with work with execution of the work till the actual completion period and shall not be entertained by Rourkela Smart City Limited,
9. In case of violation of contents of department's tender documents in shape of extra conditions or in any form , my offer/tender shall be rejected by the department without any intimations to me/us.

Signature of the  
Tenderer

Date:

**SCHEDULE -I**  
**RELATIONSHIP DECLARATION**

To,

Chief Executive officer,

Rourkela Smart City Limited

Subject: (Name of Work"..... Bid reference number)

Sir,

Pursuant to clause 2 of the ITB, it is to inform that I have relative(s) employed as an Officer in the rank of an Assistant Engineer/Under Secretary under the

Department. His (Their) details are as follows.

Relationship													
Name:													
Office													
Address													
Pursuant to clause 2 of the ITB, I am to submit herewith the names of persons who are working under my firm having near relatives to any gazetted officer in the rank of an Assistant Engineer/Under Secretary in the _____ Department.													
S.No	Name of the my employee and his designation in the firm	Presently working at	Details of his relatives working in the Department										
			<table border="1"><tr><td>Relationship</td></tr><tr><td>Name:</td></tr><tr><td>Designation</td></tr><tr><td>Office</td></tr><tr><td>Address</td></tr><tr><td>Relationship</td></tr><tr><td>Name:</td></tr><tr><td>Designation</td></tr><tr><td>Office</td></tr><tr><td>Address</td></tr></table>	Relationship	Name:	Designation	Office	Address	Relationship	Name:	Designation	Office	Address
Relationship													
Name:													
Designation													
Office													
Address													
Relationship													
Name:													
Designation													
Office													
Address													

I am also duty bound to inform the relationship of any subsequent employment with any gazetted officer in the rank of an Assistant Engineer/Under Secretary in the

Department. I am aware that any breach of this condition would render my firm liable for penal action for suppression of facts.

Yours Sincerely

**SCHEDEULE -J**

Not  
Applicable

## Schedule-K

Information (Machineries owned/possessed on lease/hire) Details of machinery possessed owned/ leased/ hired

SL No	Name of the Machineries	No of Machineries	Owned/Hired/Leased
1	Chain pulley	1	
2	Rope Pully	1	
3	Welding machine	1	
4	Grinding Machine	1	

NB. Scan copies of Owned or leased or hired receipts/Agreements of the above machineries must be uploaded into Technical Cover.

**Schedule-L**  
**AFFIDAVIT**  
(Applicable for SC/ST Bidders)

1. I, Sri/Smt/Ms....., Son/Daughter/Wife of ....., hereby declare that;
  - a. I am a registered .....Class ST/SC Contactor under Govt. of Odisha  
Or
  - b. The Partnership Firm/PrivateLtd. Company named/titled, as “.....” is a registered SC/ST Contractor under Govt. of Odisha within the ambit specified in Works Department Resolution No. 27748 dt. 11.10.77 and I, Sri/Smt/Ms....., Son/ Daughter/ Wife of ....., is authorized signatory on behalf of the Firm/Company (scanned authorization copy with my signature duly certified and attested/identified has been submitted on-line with our tender).  
[Tick (a) or (b) above whichever is applicable and fill up accordingly.]
2. As per Works Department, Govt. of Odisha Resolution No.27748 dt.. 11.10.77, I/My Firm am/is entitled for exemption of 50% EMD & ISD and accordingly, I/My Firm have/has submitted tender for the work.
3. I/My Firm hereby submit willingness to avail price preference as ST/SC category Civil Contractor as entitled in the aforesaid resolution.
4. Necessary documentary evidence(s) as prescribed in the Tender Notice at \* in support of my/our aforesaid claim for exemption of EMD & ISD have/has been duly up-loaded on- line/submitted along with my/our tender for the aforesaid work.
5. In addition to those, other documents and original(s), as required by CEO, RSCL to sustain my/our aforesaid claim shall be submitted by me/us within a week from the date of instruction/intimation of CEO, RSCL through telephone/letter/e-mail failing which my/our tender shall be liable for rejection .

(\*) –Strike out which is not applicable.

(Deponent)

(Signature of the Tenderer/Authorised Signatory

in case of

Partnership Firm/Company with Seal of the

Firm/Company) . Original Affidavit sworn before Notary Public or

Executive Magistrate

## Schedule-M

### AFFIDAVIT (Applicable for Contractors with Physical Disabilities)

1. , Sri / Smt / Ms .....Son / Daughter / Wife of .....  
....., hereby declare that I am a registered .....Class Contactor with Physical Disabilities within the ambit prescribed in Works Department, Odisha- Resolution No.23934 dt.8.11.91
2. As per the said Resolution, I am entitled for exemption of EMD & ISD and accordingly , I have submitted tender for the work.
3. Necessary documentary evidence(s) as prescribed in the Tender Notice at in support of my aforesaid claim for exemption of EMD & ISD have/has been duly up-loaded on- line/submitted along with my tender for the work.
4. In addition to those, other documents and original(s), as required by CEO, RSCL to sustain my aforesaid claim shall be submitted by me within a week from the date of instruction/intimation of CEO, RSCL through telephone/letter/e-mail failing which my tender shall be liable for rejection.

(Deponent)

Original Affidavit sworn before Notary Public or Executive Magistrate

## Schedule-N

### AFFIDAVIT

(Applicable for Engineer Contractors Intending to Avail Exemption of EMD & ISD as per OPWD Code)

1. I, Sri/Smt/Ms..... hereby declare as the Contractor/as the authorized signatory on behalf of the Contractor,"....."(Strike out whichever is not applicable) do hereby solemnly affirm and state as follows.
2. That, I/we am/are a registered ..... Class Engineer
3. That, I/we herewith claim exemption of EMD during the Year..... For participation in the tender for this work.
4. That, I/we have not exhausted the facility available to me/us an Engineer Contractor during the year..... for exemption of EMD & ISD as per Works Deptt. Guideline & OPWD Code.
5. That, I/we shall ensure production of my/our valid Original Contractor's Registration Certificate (license) after or during opening of bids (as per direction of CEO, RSCL for the above work for verification and also for subsequent entry of exemption of EMD and ISD (if selected as the contractor for this work and availed the exemption of EMD and ISD in my/our license as per direction of CEO,RSCL, within such time as directed by him failing which action, as decided by RSCL, may be taken against me/us and appropriate steps may be taken by RSCL to facilitate execution of the tendered work

(\*)- Strike out which is not applicable

(Deponent)

(Signature of the Tenderer /Authorised Signatory in case of  
Partnership Firm/Company with Seal of the  
Firm/Company)

Original Affidavit sworn before Notary Public or Executive Magistrate

## **Schedule-O**

### **Affidavit**

(Applicable for the Bidder not registered under EPF)

I, Sri/Smt/ Ms.....hereby declare as the Contractor /as the authorised signatory on behalf of the Contractor .....(Strike out whichever is not applicable) do hereby solemnly affirm and state as follows.

1. That as on date, I/We am/are not registered with RPFC(Regional Provident Fund Commission) and solemnly affirm that, I/We shall follow the " Employees Provident Fund and Misc Provision Act, 1952 & Rules /Schemes" made there under, in case the work is awarded to me/us
2. That I/We shall submit, after execution of work and before payment of any bill, the detail list of labours, such as
  - a) Name:
  - b) Father's name:
  - c) Place of Permanent Residence:
  - d) Statement of Wages paid to them till the completion of the Work
3. The RSCL Authority will be at liberty to deduct 26% of the labour component amount of the Contract & shall retain it as an additional security with RSCL.
4. That, In case I/We submit the EPF Registration Certificate, then the said additional security shall be released to me /us by RSCL without any interest subject to fulfilment of other Compliances/conditions.
5. That , this affidavit is required to be produced before the authority of Rourkela Smart City Limited for tender purpose.

That the facts stated above are true to the best of my /our knowledge.

(Deponent  
(Signature of the Tenderer/Authorised Signatory in case of Partnership Firm/Company with Seal of the Firm/Company)

Original Affidavit sworn before Notary Public or Executive Magistrate

**ANNEXURE-I**  
**FORM OF AGREEMENT**

(First page to be filled up and signed in non-judicial stamp paper of worth Rs.100/-)

This contract made on Dt.....between Rourkela Smart City Limited (RSCL) , hereinafter called "the employer" and .....(name and address of the selected bidder), hereinafter called "the Contractor"

Whereas, the employer is desirous that the Contractor shall execute "Construction of Roofing work in Panposh Market on Percentage Rate Basis."

vide Bid Reference no...../Dt.....,hereinafter called "the work" and the employer has accepted the bid of the Contractor for execution and completion of such works and rectifications of defects , if any, at an accepted tender/contract price of Rs.....(Rupees ) only.

Now, therefore, it is hereby agreed upon by RSCL and the Contractor as follows:

1. In this contract, words and expressions shall have the same meanings as are respectively assigned to those in this DTCN and the Contract form as a whole. The DTCN and agreement shall be deemed to form and be read as construed as part of this contract with a view to maintaining the sanctity of this contract for successful execution and completion of the work unless otherwise clarified/redefined at a later stage during the Contract remains in force including the defect liability period.
2. In consideration of the payments to be made by the employer, the Contractor hereby covenants with the employer to execute and complete the work and rectify the defects therin, if any , in conformity with the provisions of this contract.
3. The employer hereby covenants to pay the Contractor in consideration of the execution and completion of the work and for rectification of defects , if any , wherein the contract price or such other sum, as may become payable under the provisions of the contract and in the manner prescribed under this Contract.
4. The following documents shall be deemed to form, read and construed in conjunction with other portions/clauses/conditions of this contract and DTCN.

- I. DTCN invited for the work including the Short Notice
- II. Contractor's Bid and negotiation correspondence , if any
- III. Letter of Acceptance/Letter of Intent for the Work(LOA/LOI)
- IV. Notice to proceed with the work (Work Order) to be issued by RSCL and subsequent instructions of RSCL to the selected Bidder subject to confirmation of the same, if required , by RSCL through written notice to the selected bidder.
- V. P1 Agreement which includes Items, Quantities, Rates and Amounts of the work to be duly signed by RSCL and the Contractor.
- VI. Copy of agreements drawn by the contractor with electrical Contractor vide scope of work of DTCN for Electrical Works.

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- VII. Instruction/intimation of RSCL for execution of extra work/item/quantity found essential for the work and corresponding rates not covered in the agreement/DTCN /Financial Bid and also curtailment/exclusion of any items of the Financial Bid from execution.
- VIII. Drawing, design, work programme or part thereof submitted by the contractor and duly approved by RSCL with or without modification.
- IX. Letter/ Intimation/ Instruction( including physically and over telephone) of RSCL for repair/replacement/ defect rectification, if any, with respect to modified quality/specification for such repair/ replacement/ defect rectification work and allowed time to accomplish the same either during the execution of the work or during the defect liability period of 1825 days from the officially declared/notified/noted date of completion of the whole work including additional/curtailed items/ quantities of the work as per direction of RSCL. RSCL reserve the right to declare/ note the date of completion of the original work and date of expiry of defect liability period which will be binding upon the Contractor.

In witness whereof , the aforesaid two parties have entered into this contract on the date mentioned above.

Binding Signature of Employer signed by.....  
(for and on behalf of Rourkela Smart City Limited-Employer)

Binding Signature of Contractor signed by.....  
(authorised signatory in case of firm/company with applicable authorisation letter/declaration attached to this Contract)

In presence of witnesses

1. Name:

Address:

Tel No:

Signature

2. Name:

Address:

Tel No:

Signature

Signature of Contractor  
(Authorised Signatory with Seal)  
(Authorised Signatory with Seal)

Signature of Employer  
(Authorised Signatory with Seal)

**Annexure-III**

All Financial Transaction Related to the Project must be abide with the Following Instruction

**Category-1(Banks with composite score 55 and above with Branches 100 and above)**

As per Govt. of Odisha Finance Department No. 32775 /F Dt.30.11.2023 or any amendment “Selection of Banks for handling business and deposits of State Public Sector Undertakings (SPSUs) and State Level Autonomous Societies (SLASs) for the years 2021-22 followings banks have been selected for handling Business & Deposits (Copy attached) for Ref.:-

<b>Public Sector Banks</b>		<b>Private sector banks</b>	
1	Bank of Baroda	11	Axis Bank Ltd
2	Bank of India	12	Bandhan Bank
3	Canara Bank	13	HDFC Bank
4	Central Bank of India	14	ICICI Bank
5	Indian Bank	<b>RRBs &amp; OSCB</b>	
6	Indian Overseas Bank		
7	Punjab National Bank		
8	State Bank of India	15	Odisha Gramya Bank
9	UCO Bank	16	Utkal Grameen Bank
10	Union Bank of India	17	Odisha State Co-Op. Bank

**Category-II (Bank with composite score 65 and above with Branches 50-99)**

<b>Private Sector Bank</b>		<b>Small Finance Bank</b>	
18	DCB Bank	19	IDBI Bank
20	Jana Small Finance Bank		

**CATEGORY.III: Category III Banks with Branches 30 to 49**

21	Bank of Maharashtra		
22	IDFC First Bank		

## Annexure-IV

### FORM OF BANK GUARANTEE [Performance Security/Additional Performance Security]

To

\_\_\_\_\_ [name of Authority]

\_\_\_\_\_ [address of Authority]

WHEREAS \_\_\_\_\_ [name and address of Contractor]

(hereafter called the “Contractor”) has undertaken, in pursuance of Letter of Acceptance (LOA) No. \_\_\_\_\_ Dated \_\_\_\_\_ for construction of \_\_\_\_\_ [name of the Project] (hereinafter called the “Contract”).

AND WHEREAS the Contract requires the Contractor to furnish an {Performance Security/ Additional Performance Security} for due and faithful performance of its obligations, under and in accordance with the Contract, during the {Construction Period/ Defects Liability Period and Maintenance Period} in a sum of Rs..... Lakhs. (Rupees ..... Lakhs) (the “Guarantee Amount”<sup>1</sup>).

AND WHEREAS we, ..... through our branch at ..... (the “Bank”) have agreed to furnish this Bank Guarantee (hereinafter called the “Guarantee”) by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor’s obligations during the {Construction Period/ Defects Liability Period and Maintenance Period} under and in accordance with the Contract, and agrees and undertakes to pay to the Authority, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Authority shall claim, without the Authority being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Authority, under the hand of an officer not below the rank of General Manager of Rourkela Smart City Ltd., that the Contractor has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Contract shall be conclusive, final and binding on the Bank. The Bank further agrees

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<sup>1</sup> Guarantee Amount for Performance Security and Additional Performance Security shall be calculated as per Contract.

that the Authority shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Contract and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Authority and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other authority or body, or by the discharge of the Contractor for any reason whatsoever.

3. In order to give effect to this Guarantee, the Authority shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Authority to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Authority shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Contract or to extend the time or period for the compliance with, fulfillment and/ or performance of all or any of the obligations of the Contractor contained in the Contract or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Authority against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Contract and/or the securities available to the Authority, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Authority or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Authority in respect of or relating to the Contract or for the fulfillment, compliance and/or performance of all or any of the obligations of the Contractor under the Contract.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Authority on the Bank under this Guarantee all rights of the Authority under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on \*\*\*\*\$. Unless a demand or claim

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<sup>\$</sup>Insert date at least 12 (Twelve) Month from the date of issuance of this Guarantee (in accordance with Clause 29 of the DTCN).

under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.

9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Authority in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Authority that the envelope was so posted shall be conclusive.
11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Authority pursuant to the provisions of the Contract.
12. This Guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.
13. This guarantee shall also be opera table at our..... Branch at Rourkela , from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation
14. Bank Detail of Rourkela Smart City Ltd.

S.No.	Particulars	
1	Name of Bank	State Bank of India
2	Name of Branch	Udit Nagar Branch
3	A/c No	36450132867
4	Type of A/c	Saving Bank A/c
5	IFSC	SBIN0007474

Signed and sealed this ..... day of ....., 20..... at .....

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

## **Annexure-IV**

### **Format for Power of Attorney for signing of BID (Refer Clause Annexure-II)**

Know all men by these presents, We..... (name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms (name), ..... son/daughter/wife of ..... and presently residing at ....., who is presently employed with us/ the Lead Member of our Joint Venture and holding the position of....., as our true and lawful attorney (hereinafter referred to as the “Attorney”) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our BID for the “Construction of Roofing work in Panposh Market on Percentage Rate Basis” . (the “Authority”) including but not limited to signing and submission of all applications, BIDs and other documents and writings, participate in Pre-BID and other conferences and providing information/ responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts including the agreement and undertakings consequent to acceptance of our BID, and generally dealing with the Authority in all matters in connection with or relating to or arising out of our BID for the said Project and/ or upon award thereof to us and/or until the entering into of the EPC Contract with the Authority. AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, ....., THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS ..... DAY OF ..... 2.....

For .....  
(Signature, name, designation and address)  
of person authorized by Board Resolution  
(in case of Firm/ Company)/ partner in case  
of : Partnership firm “Copy enclosed”

Witnesses

1.

2.

Accepted

.....

(Signature)

(Name, Title and Address of the Attorney)

**(Notarised)**

(Person identified by me/ personally appeared before me/)

Attested/ Authenticated\*

(\*Notary to specify as applicable)

(Signature Name and Address of the Notary)

Seal of the Notary

Registration No. of the Notary

Date:.....

**SCOPE OF WORK AND TECHNICAL SPECIFICATION**

**For**

**Construction of Roofing work in Panposh Market on Percentage Rate Basis.**

### **Scope of Work**

The scope of works consists of preparation **of structural design, fabrication and, construction/erection of truss work and providing of GCI roofing as per specification.**

The scope of work covered in this tender shall be as per the Bill of Quantities, specifications, drawings, instructions, orders issued to the contractor from time to time during the pendency of work. The drawings for this work, which may be referred for tendering, provide general idea only about the work to be performed under the scope of this contract

Details and drawings given in Tender document is for information purpose only and successful bidder shall undertake confirmatory survey for accuracy and completeness of data. It is in scope of successful Bidder to undertake all Site surveys,

Drawings are attached in the Tender Notification on the basis of this Contractor has to prepare GFC and submit for approval etc.

The work is divided into following parts:

- Providing GCI designed pattern roofing over central plaza
- Providing GCI designed pattern chhaja work over central plaza
- Providing railing work

### **Preliminary Works**

All preliminary works such as site clearance in all types of conditions, survey, investigations, marking of alignment, layout etc. as described elsewhere in these specifications, for such work no extra payment shall be made to the Contractor. The Contractor is advised to inspect site before tendering to ascertain the quantum and cost of such work and include this cost in their offer.

### **Safety:**

- Contractor has to take care of all safety measures as per Owner / Engineer-in-charge's HSE requirements. Local barricading shall be provided around the other work areas, where main barricading of 15m was not provided. No extra payment shall be made for the local barricading works provided for protection.
- Proper management of loose earth, mud, water, oily material is to be ensured to avoid making the area messy and slippery.
- Working area needs to be properly cordoned off and proper care is to be taken so that surrounding equipment, instruments etc. are not damaged during the construction.

- An experienced safety engineer shall be deployed to site to ensure that the construction work is carried out in a safest manner and shall work in coordination with Owner / Engineer-in-charge's safety Engineer.

Following codes shall be followed as applicable as per direction of engineer.

CONSTRUCTION SAFETY	IS 3696 (Part 1):1987 Reaffirmed 2017	Safety code of scaffolds and ladders: Part 1 Scaffolds(first revision)
CONSTRUCTION SAFETY	IS 3696 (Part 2):1991 Reaffirmed 2017	Safety code of scaffolds and ladders: Part 2 Ladders(first revision)
CONSTRUCTION SAFETY	IS 7969:1975 Reaffirmed 2017	Safety code for handling and storage of building materials.
CONSTRUCTION SAFETY	IS 8989:1978 Reaffirmed 2015	Safety code for erection of concrete framed structures.

#### **Co Operations with other Contractors:**

The contractor shall provide all facilities and give complete co-operation for the execution of various other works, if required to be carried out simultaneously by other agencies. While his own work is in progress, the co-ordination will be affected in consultation with the Engineer-in-Charge of the work. Other contractors are also likely to work in the same area during the construction stage.

#### **Traffic Interference & Inconvenience to The Public:**

The contractor shall conduct his operations so as to interfere as little as possible with the traffic. When interference to traffic is inevitable, notice of such interference shall be given to the Engineer-in-Charge well in advance (at least 2 days). The contractor shall take all precautionary and other measures, such as providing warning signals, temporary diversions, etc., all as directed by the Engineer-in-Charge. The contractor shall exercise full care to ensure that no damage is caused by him or his workmen, during the operations, to the existing water supply and power lines. The cost of any such damage and risks arising out of this shall be entirely borne by the contractor.

#### **Preamble to Bill of Quantities:**

- (a) The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Technical Specifications, and Drawings.
- (b) The quantities given in the Bill of Quantities are estimated and provisional, which may be varied, 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 tendered 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.

- (c) General directions and descriptions of work and materials are not necessarily repeated or summarized in the bill of Quantities. The contractor shall refer to the relevant sections of the contract documentation before entering rates or prices against each item in the Bill of Quantities.
- (d) The method of measurement of completed work for payment shall be in accordance with the Particular Specifications, guidelines issued by Bureau of Indian Standards as per order of precedence and also as per the method mentioned in the contract and standard specification.
- (e) Unless stated otherwise, all rates and prices entered in the Bills of Quantities shall be deemed to include the following:
  - Labour and all costs in the connection with the execution and maintenance of the work.
  - The supply of materials, goods, storage and all costs in connection therewith including wastages, shrinkage and delivery to site.
  - Sampling and testing materials and goods, checking workmanship, providing, storing, packing and transporting samples to and from the place of testing.
  - Fixing, erecting, installing or placing of material and goods and excavated materials, including stacking, storing, loading, transporting and unloading.
  - All Temporary works.
  - Construction, maintenance of temporary access roads within the sites and any roads required for the access to any part of the site for the purpose of carrying out the Works , taking into account that the access roads under the Contractor's maintenance control will also be used by the Employer and his staff vehicles.
  - Construction , maintenance and removal , if required , of temporary Sites drainage on the Site and for ensuring that all drains are kept clear of debris and blockages at all times.
  - Survey, Investigation, design and drawings.
  - All general obligations, liabilities and risks involved in the execution and maintenance of the works set forth or reasonably implied in the documents on which the Bid is based.
  - Establishment charges, overheads and profits.
  - Co-operating with other Contactors.
  - The price for transportation included in any of the items in the Bills of Quantities are to include for all labour and equipment required for unpacking , loading , conveying , unloading , storing and multiple handling of all and every item to be transported.

## DESIGN CRIETRIA

### (Civil Works)

#### Codes, standards and specifications

The design shall comply with the latest editions and revisions of the codes, specifications, and standards listed below:

**Table 1: Latest edition and revision of codes**

1	NBC	National Building Code of India.
2	IS: 1893 (Part 1)	Criteria for Earthquake Resistant Design of Structures (Part 1 – General Provisions and Buildings).
3	IS: 1893 (Part 2)	Criteria for Earthquake Resistant Design of Structures (Part 2 – Liquid retaining tanks – Elevated and ground supported).
4	IS: 1893 (Part 3)	Criteria for Earthquake Resistant Design of Structures (Part 3 – Bridges and retaining walls).
5	IS: 1893 (Part 4)	Criteria for Earthquake Resistant Design of Structures (Part 4 – Industrial Structures including Stack-Like Structures).
6	IBC	International Building Code.
7	IS 3414	Code of practice for design and installation of joints in buildings

**Table 2 : Latest edition and revision of RCC**

1	IS: 432	Specification for mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement.
2	IS: 456	Plain and Reinforced Concrete – Code of Practice.
3	IS: 1786	High strength deformed steel bars and wires for concrete reinforcement.
4	IS: 2502	Code of Practice for Bending and Fixing of Bars for Concrete Reinforcement.
5	IS: 4326	Code of practice for earthquake resistant design and construction of buildings.
6	IS:13920	Code of practice for ductile design and detailing of reinforced concrete structures subjected to seismic forces.
7	IS: 1904	Code of practice for design and construction of foundations in soils: General requirements.
8	IS: 3370 (Part 1 to 4)	Concrete structures for the storage of liquids - Code of Practice.
9	IS: 5249	Determination of dynamic properties of soil, method of test.
10	IS: 8009 (Part 1 & 2)	Code of practice for calculation of settlements of foundations.

11	IS: 3414	Code Of Practice For Joints In The Buildings.
12	SP: 16	Design Aids for Reinforced Concrete to IS 456: 1978.
13	SP: 24	Explanatory Hand Book on Indian Standard Code of Practice for Plain and Reinforced Concrete (IS 456: 1978).
14	SP: 34	Hand Book of Concrete Reinforcement and Detailing.
15	SP: 20 (S & T)	Explanatory Hand Book on Masonry Design and Construction.

### **Material, workmanship and design criteria**

The proposed structure will consist of concrete and steel reinforcement as main materials used for construction of the structures.

### **Structural design of RCC elements**

The design aims to achieve an acceptable probability that structures being designed will perform satisfactorily during their intended life. With an appropriate degree of safety, they should sustain all the loads and deformations of normal construction and use and have adequate durability and resistance to the effects of earthquake, wind as well as misuse and fire. Structures and structural elements will be designed by Limit State Method. Due consideration will be given to the accepted theories, experience and modern design philosophy and practices

### **Construction joint**

Construction joints and shrinkage strips to be planned by the contractor, at design stage (as per IS code: 3414) itself and only be used in locations pre-approved by consultants. Water stops shall be provided in all construction joints below ground level in addition to any joint which may be detailed on the drawing.

### **Expansion joint**

To relieve the structure from temperature stresses, expansion joints are provided at several locations as per the IS requirements. As per BIS code requirement expansion joints are proposed if the length of the structure exceeds 45m. Depending upon geometry of building and for lateral load resisting system expansion joint may be provided for the RCC structures like retaining wall as recommended by IS codes. Gap for the expansion / separation joint shall be provided as per the provisions mentioned in IS 1893 part IV.

### **Permissible deflections**

Permissible deflections shall be as per IS: 456 clauses 23.2. Total deflection of various structural members shall be calculated as per ANNEX C of IS 456. Provisions of IS 1893 and IS 875 shall be followed for lateral deformations.

- The final vertical deflection due to all loads including the effects of temperature, creep and shrinkage and measured from the as-cast level of the supports of floors, roofs and all other horizontal members should not normally exceed span/250.
- The part deflection including the effects of temperature, creep and shrinkage should not normally exceed span/350 or 20 mm whichever is less.
- Under wind load, the lateral sway at the top of building should not exceed height/500.

## **CRACK WIDTH**

Various structural members shall be designed for crack width mentioned as below as per clause no. 35.3.2 IS 456:2000 & clause no. 4.4.1.2, IS 3370(Part-2):2009.

For structural members exposure to serve exposure condition = 0.1mm

- For water retaining structures = 0.2 mm
- For members exposed to soil or ground water = 0.2 mm
- All other structural members = 0.3 mm

## **Design loads**

The design of various structural members for this building should follow the following loads and also effects due to shrinkage, creep, temperature, etc., where applicable.

### **Dead load**

The dead loads should be calculated on the basis of unit weights of materials given in IS: 875 (Part 1). The dead load considered in the structural design shall consist of the full weight of all known fixed structural and architectural elements. The unit weight of materials will be used as follows.

**Table 4: Unit weight of material**

	Particulars	Weight
1	Reinforced concrete	25.00 kN/m <sup>3</sup>
2	Plain concrete	24.00 kN/m <sup>3</sup>
3	Light weight concrete	12.00 kN/m <sup>3</sup>
4	Concrete block work	18.00 kN/m <sup>3</sup>
5	Brickwork	20.00 kN/m <sup>3</sup>
6	Autoclaved Aerated Concrete Blocks	8.00 kN/m <sup>3</sup>
7	Stone cladding	25.00 kN/m <sup>3</sup>
8	Floor finishes	20.00 kN/m <sup>3</sup>
9	Glass	23.50 kN/m <sup>3</sup>
10	Structural steel	78.50 kN/m <sup>3</sup>
11	Water	09.81 kN/m <sup>3</sup>
12	Dry Soil	16.00 kN/m <sup>3</sup>
13	Saturated Soil (Garden load with roots)	21.00 kN/m <sup>3</sup>

**Typical Dead loads considered in the design are as follows:**

Self-weight of slabs, beams, columns & walls - As per sectional sizes of the members.

**Additional dead loads**

- Floor finishes at Typical floors -1.5 kN/m<sup>2</sup>
- Water Proofing at Terrace -3.0 kN/m<sup>2</sup>

**Live load**

All the live loads should be followed as per IS: 875 (Part 2).

**Seismic load (sl)**

All buildings, structures, foundations should be designed to resist the effects of earthquakes in accordance with IS: 1893 - Criteria for Earthquake Resistant Design of Structures for Design Basis Earthquake. The structure is primarily column and beam framing system and Retaining wall , since due considerations will be given to the major suggestions/ clauses from IS: 13920. The Retaining wall are to be designed to carry lateral loads .

Seismic design forces should be determined based upon the following parameters. Buildings of different materials of construction and lateral force resisting systems shall be investigated separately.

➤ **Seismic weight calculation**

The seismic weight of building includes all permanent rigidly attached structural and non-structural components of a building, such as walls, floors, roofs, total weight of permanent equipment etc. The contribution of live load to be considered in the seismic weight calculation shall be taken as per Clause 7.3.1 and as specified in Table – 8 of IS 1893 ( part 1).

➤ **Permissible stresses**

- Whenever seismic forces are considered along with other normal design forces, the permissible stresses in material shall be governed by the respective codes as per which the structure/ equipment is being designed.
- For the other provisions of the code Cl.No.6.3.5 of IS: 1893 (part-1) and Cl.No. 7.4 of IS: 1893 (Part-4) shall be followed.
- Earthquake loads shall not be considered to act simultaneously with wind.

➤ **Ductile detailing**

The ductility details of reinforced concrete members should be provided as per the provisions of IS: 13920 to avoid premature failure during earthquake.

**Surcharge load**

Minimum surcharge of 10KN/m<sup>2</sup> and as per IRC whichever is higher shall be considered for design of all underground structures to take in to account the construction load and vehicular traffic in the vicinity of structure.

**Earth pressure**

Earth pressure for walls of basement/ tanks etc. with propped support condition will be calculated using coefficient of earth pressure at-rest. Earth pressure for cantilever walls like cable trenches and Retaining wall will be calculated based on active earth pressure. Unit weight of soil shall be as per section 8.1. Other soil parameters such as cohesion and angle of internal friction shall be considered as per soil investigation report.

**Hydrostatic pressure**

If envisaged, the ground water load shall be applied on the substructure as super imposed dead load in addition to the earth pressure. The dry density of soil shall be considered in this combination.

**Construction loads**

Loads produced by the materials of construction plus the equipment required to construct the facility (crane loads, rigging loads, earth moving equipment, temporary bracing, etc.) as applicable shall be considered.

**Load combinations**

Each element of a building or structure shall be provided with sufficient strength to resist the most critical effects resulting from the following combination of loads.

**Load cases and load combination shall be as follow:**

Static load cases

- Dead load (DL)
- Live load (LL)
- Seismic load (Spectra) in X-direction (EQX)
- Seismic load (Spectra) in Y-direction (EQY)

(X and Y directions are mutually orthogonal in plan area, to define the direction of seismic forces with reference to building)

The following Load Combinations have been considered for the analysis.

- 1.5 DL
- 1.5 (DL+ LL)
- 1.2 (DL +LL+EQX)
- 1.2 (DL + LL – EQX)
- 1.2 (DL + LL + EQY)
- 1.2 (DL + LL – EQY)
- 1.5 (DL + EQX)
- 1.5 (DL – EQX)
- 1.5 (DL + EQY)
- 1.5 (DL – EQY)
- 0.9 DL + 1.5 EQX
- 0.9 DL -1.5 EQX
- 0.9 DL + 1.5 EQY
- 0.9 DL - 1.5 EQY

Load Combinations for Serviceability

- DL+ LL
- DL + 0.8 LL + 0.8 EQX
- DL + 0.8 LL – 0.8 EQX
- DL + 0.8 LL + 0.8 EQY
- DL + 0.8 LL - 0.8 EQY
- DL + EQX
- DL – EQX
- DL + EQY
- DL - EQY

The design shall be governed by worst load combinations, keeping in view the probability of Each load case acting together and Their disposition in relation to other loads and severity of stresses or deformations caused by combinations of the various loads is necessary to ensure the required safety and economy in the design of a structure.

The allowable stresses and soil bearing values shall not be increased for any condition of dead, live loads acting alone or in combination with each other.

## TECHNICAL SPECIFICATIONS

### (Civil Works)

#### 1. Erection of Structural Steel

This specification covers the general requirements for erection of structural steel. In addition to provision of erection and transport equipment, the scope of work includes supply of tools and tackles, consumables, materials, labor and supervision and shall cover the following:

- Storing and staking of all fabricated structural components/units/assemblies at site storage yards till the time of erection.
- Transportation of structures from storage yard to site of erection, including multiple handling, if required.
- All minor rectifications/ modifications such as:-
  - i. Removal of bends, kinks, twists etc for parts damaged during transportation and handling
  - ii. Reaming of holes which do not fit properly, or which are damaged, for use of next higher size bolt.
  - iii. Plug-welding and re-drilling of holes which do not register, and which cannot be reamed for use of next higher size bolt.
  - iv. Drilling of holes which are either not drilled at all or are drilled in incorrect position during fabrication.
- Fabrication of minor missing items as directed by the Employer
- Verification of the position of embedded anchor bolts and inserts w.r.t lines and levels, installed by others based on Geodetic Scheme /Bench Mark/Reference co-ordinates to be furnished by Employer.
- Verification of actual dimensions of structures (erected by others) which would have bearing on the cutting lengths, end connections etc of those members which are to be erected under this scope of work.
- Assembly at site of steel structural components wherever required, including temporary supports and staging
- Making arrangements for providing all facilities for
  - i. Conducting Ultrasonic Testing (UT) by reputed testing laboratories approved by Employer.
  - ii. Making available test films / graphs, with reports / interpretation.
- Rectifying at site damaged portions of shop primer by cleaning and application touch-up paint.
- Erection of structures including making connections by bolts/ High strength Friction Grip bolts / welding as per drawing.
- Alignment of all structures true to line, plumb and dimensions within specified limits of tolerance.
- Application at site after erection, required number of coats of primer and finishing paint as per specification.
- Rectification of structures as per preliminary acceptance report and Final acceptance report.

All necessary items of work required for satisfactory completion of job on schedule.

#### 13.1 APPLICABLE CODES STANDARDS & SPECIFICATIONS

The pertinent clauses of the following Indian Codes, Standards and Specification (latest editions including all applicable official amendments, reaffirmations and revisions) shall apply

to the material and workmanship covered by this specification. In the event of the conflict of certain requirements between this specification and the codes referred herein, this specification shall govern. It is not the intent to specify herein all the codes and standards required for the satisfactory completion of work. The list of codes and standards indicates certain primary codes & standards and not all the codes required for the work under the contract. It is understood that all the pertinent codes and standards shall form the part of this specification whether explicitly indicated or not.

Reference codes and standards:

IS 800 General Constructions in Steel –Code of Practice.

IS 806 Code of Practice For Use Of Steel Tubes In GeneralBuilding Construction.

IS 822 Code of Procedure for Inspection of Welds.

IS:1363 Hexagonal Head Bolts, screw and nut of Product grade C

IS:1367 Technical Supply Conditions for threaded fastener (all parts)

IS 4000 Code of Practice High strength bolts in Steel Structures.

IS 7205 Safety code for erection of structural steel

IS 7969 Safety code for handling and storage of building Materials

IS:9595 Metal Arc Welding of Carbon and Carbon manganese steel.

IS 12843 Tolerances for erection of steel structures.

SP:6(1) Structural Steel Sections.

AWS D1.1 Structural Welding Code: Steel

### **13.2 REGULATORY REQUIREMENTS**

The work covered in this specification, shall comply with all relevant government and local laws, regulations and standards. For subjects not covered by regulations, codes, standards or specifications, the materials and construction shall be based on good engineering practice, subject to approval by EMPLOYER.

### **13.3 ERECTION SCHEME**

CONTRACTOR after the award of work shall submit a detailed erection scheme covering the period of completion of all the works covered under the specification for ENGINEER's approval. The erection scheme shall include but not limited to the following.

- i. Methods proposed to be employed for transporting his equipment's, tools, tackles, gas cylinders, electrodes and all that is necessary to site.
- ii. Type, capacity and quantity of equipment that the CONTRACTOR proposes to bring to site for unloading, transporting within the site, handling, assembling, hoisting and erecting of the structural steel components for all these operations.
- iii. Strength and trade wise composition of the work force and supervisory personnel that will be deployed by the CONTRACTOR for the various operations.
- iv. Any special specific scheme being adopted for erection of special / complicated structural elements such as roof trusses etc.

A brief write-up covering the above activities shall be submitted along with the bid document by the Bidder during submission of his bid. ENGINEER reserves the right to direct the CONTRACTOR either at the start or during the contract period, to mobilize additional resources in terms of labour, material, equipment, tools and plant etc at no cost to the EMPLOYER if in his opinion that the resources employed by the CONTRACTOR does not meet the schedule of completion.

### **13.4 ERECTION PROGRAMME**

Within two (2) weeks of acceptance of bid the CONTRACTOR shall submit a detailed erection programme with dates and estimated completion time for various parts of the work for ENGINEER's approval. This programme shall broadly comprise the following:

- i. Layout plan identifying the areas proposed for unloading, main storage, Subsidiary storage and assembly
- ii. Transportation of fabricated material between the storage and work areas.

- iii. Layout to indicate the points at which proposed erection begins, direction in which it is proposed to progress, the deployment of equipment, access route for cranes to reach work areas, etc.
- iv. The locations and extent of site offices and stores, labor quarters if any. v. Layout of electrical cables and water pipes from the tap-off points.
- vi. Details of the method of handling, transport, hoisting and erection including false work/staging, temporary bracing, guying, etc. along with complete details of the quantity and capacity of the various items of erection equipment that will be used.
- vii. Site organization chart showing the number of supervisory personnel, and the number and composition of the various gangs.
- viii. Safety measures to be adopted at site of erection and organization chart showing safety personnel. Any modifications to the erection programme directed by ENGINEER for the reasons of inadequacy of

- i. The quantity and/or capacity of the erection equipment.
- ii. Erection personnel and supervisors, temporary bracing, guying etc.,
- iii. Safety of the erection methods, or stability of the erected portions of structures, or unsuitability of the erection sequence due to interference with the work of other agencies.
- iv. Any other unforeseen events which may delay the schedule.
- v. Safety measures proposed.

Shall be incorporated by CONTRACTOR and the work shall be carried out in accordance with the revised programme. Approval by ENGINEER shall not relieve the CONTRACTOR from the responsibility for the safe, sound, accurate and timely erection of structural steel work as required by ENGINEER/EMPLOYER. CONTRACTOR shall also make no extra claims for bringing additional equipment to site for erection, if so directed by ENGINEER. CONTRACTOR shall be deemed to have visualized all erection problems while bidding for the work and no additional compensation shall be claimed on this account.

### **13.5 ACCEPTANCE, HANDLING AND STORAGE**

The fabricated material received at erection site shall be verified with respect of marking on the key plan / marking plan or shipping list. Any material found damaged or defective shall be stacked separately and the damaged or defective material shall be painted in distinct colour for identification and the same shall be brought to the notice of ENGINEER. No dragging of steel shall be permitted. All fabricated items shall be stored 300mm above ground on suitable packing to avoid damage. It shall be stored in the order required for erection, with erection marks visible. All storage areas shall be prepared and maintained by CONTRACTOR. Steel shall not be stored in the vicinity of areas where excavation or grading will be done and, if so stored temporarily, this shall be removed by CONTRACTOR well before such excavation and/or grading commences to a safe distance to avoid burial under debris. Scratched or abraded steel shall be given a coat of primer in accordance with TCE specification M4-405-04 (painting of structural steel) after unloading and handling prior to erection. All milled and machined surfaces shall be properly protected from rust/corrosion by suitable coating and also from getting damaged.

### **13.6 ANCHOR BOLTS, EMBEDDED PARTS AND FOUNDATIONS**

CONTRACTOR shall carefully check the location, level and layout of anchor bolts embedded in foundations constructed by others, to ensure that the structures can be properly erected as shown on the drawings. Any discrepancy in the anchor bolts/foundation shall be reported to

ENGINEER. CONTRACTOR shall carefully check the actual dimensions of structures and also the location, level and sizes of embedded parts a) in the RC beam /column and/ or b) cleats / plates provided in steel beam /column constructed by others to receive structures covered under this scope of work. CONTRACTOR shall take note of discrepancies if any, shall be reported to ENGINEER and fabricate the structures covered under this contract suitably before the commencement of erection.

Levelling of column bases to the required elevation may be done either by providing shims or three nuts on the upper threaded portion of the anchor bolt. All shim stock required for keeping the specified thickness of grout and in connection with erection of structures on foundations, crane brackets or at any other locations shall be of good M.S. plates and shall be supplied by CONTRACTOR at his cost.

A certain amount of chipping/cleaning of foundations and preparing the area is considered normal and shall be carried out by CONTRACTOR at no extra cost. Where beams bear in pockets or on walls, bearing plates shall be set and levelled as part of the work. All grouting under column base plates or beam bearing plates will be carried out by CONTRACTOR, unless the grouting is specifically excluded from the CONTRACTOR's scope.

### **13.7 ASSEMBLY AND CONNECTIONS**

Field connections may be affected either by bolting, welding or by use of high strength friction grip bolts as shown in the design and erection drawings. All bolts, nuts, washers, rivets, electrodes required for field connections shall be supplied by CONTRACTOR free of cost. The materials shall have prior approval from the EMPLOYER /ENGINEER and necessary test certificates shall be furnished to ENGINEER's approval. Materials shall be procured from the reputed manufacturers with prior approval from EMPLOYER/ENGINEER. All assembling shall be carried out on a level platform. Drifts shall be used only for drawing the work to proper position and must not be used to such an extent as to damage the holes. Size of drifts larger than the nominal diameter of hole shall not be used. Any damaged holes or burrs must be rectified to the satisfaction of ENGINEER.

Corrections of minor misfits and reasonable amount of reaming shall be considered as a part of erection. Any error in the shop, which prevents proper fit on a moderate amount of reaming and slight chipping or cutting, shall be immediately reported to ENGINEER.

### **13.8 ERECTION**

Erection work shall be taken up after receipt of clearance from the ENGINEER. All structural steel shall be erected as per approved Design / fabrication drawings.

For safety requirements during erection, provisions of IS: 7205,IS:7969, IS800 and other relevant codes shall be strictly followed.

Erection shall be carried out with the help of maximum mechanization possible. Prior to commencement of erection, all the erection equipment, tools, tackles, ropes etc shall be tested for their load carrying capacity. Such tests may be repeated at intermediate stages also if considered necessary. Frequent visual inspection shall be done of all vulnerable areas and

components to detect damages or distress in the erection equipments, if any. Temporary bracing, whenever required, shall be provided to sustain forces due to erection loads and equipment etc. Erected parts of the structure shall remain stable during all stages of erection when subjected to action of wind, dead weight and erection forces etc. Such bracings shall be left in place as long as may be required for safety and stability.

Specified sequence of erection of vertical and horizontal structural members shall be followed. Erected members shall be held securely in place by bolts to take care of dead load, wind /seismic load and erection load. All structural members shall be erected with erection marks in the same relative position as shown in the appropriate erection and shop drawings.

All connections shall achieve free expansion and contraction of structures wherever provided.

No final bolting or welding of joints shall be done until the structure has been properly aligned and approved by ENGINEER. For positioning beams, columns and other steel members, the use of steel sledges is not permitted.

Instrumental checking of correctness of initial setting out of structures and adjustment of alignment shall be carried out in sequence and at different stages as required using precision survey instruments. The final levelling and alignment shall be carried out immediately after completion of each section of a building.

The CONTRACTOR shall design, manufacture, erect and provide false work, staging temporary support etc, Required for safe and accurate erection of structural steelwork and fully responsible for the adequacy of the same.

The CONTRACTOR shall also provide facilities such as adequate temporary access ladders, gangways, tools & tackles, instruments etc. to EMPLOYER for his inspection at any stage during erection.

Proper size steel cable slings, etc., shall be used for hoisting. Guys shall not be anchored to existing structures, foundations, etc. unless so permitted by ENGINEER in writing. Care shall

be taken to see that ropes in use are always in good condition. Steel columns in the basement, if any, are to be lowered and erected carefully with the help of a crane and/or derrick without damaging the basement walls steel or floor.

Structural steel frames shall be erected plumb and true. Frames shall be lifted at such points that they are not liable to buckle and deform. Trusses shall be lifted only at node points. Trusses which are very slender in the lateral direction shall be provided with temporary lateral supports till the horizontal bracings are erected. All steel columns and beams shall be checked for plumb and level individually before and after connections are made.

Chequered plates shall be fixed to supporting members by welding or by countersunk bolts as shown/specified in relevant drawings and/or as directed by ENGINEER. The edges shall be made smooth and no burrs or jagged ends shall be left. While splicing, care should be taken so that there is continuity in pattern between the two portions. Care should also be taken to avoid distortion of the plate while welding. The erection of chequered plates shall include:

- a. Welding of stiffening angles/vertical stiffening ribs as per drawings
- b. Cutting to size and making holes to required shape wherever necessary to allow service lines such as piping, cables etc to pass through
- c. Splicing as shown in relevant drawings
- d. Smoothening of edges
- e. Fixing of chequered plates by welding and/or countersunk bolts
- f. Providing lifting hooks for ease of lifting.

Cutting, heating or enlarging holes may be carried out only with prior written Approval from the ENGINEER.

### **13.9 FIELD CONNECTIONS:**

#### **Assembly by Permanent Bolts:**

- The number of washers on permanent bolts shall not be more than two (2) and not less than one (1) for the nuts and one (1) for the bolt head.
- Only wooden rams or mallet shall be used in forcing members into position in order to protect the metal from injury or shock.
- Where bolting is specified on the drawing, the bolts shall be tightened to the maximum limit.
- The threaded portion of each bolt shall project through the nut by at least one thread. Tapered washers shall be provided for all heads and nuts to achieve uniform bearing on sloping surface.
- To prevent loosening of nuts, spring washers or lock-nuts shall be provided as specified in the design / shop drawings.
- All machine fitted bolts shall be perfectly tight and the ends shall be checked to prevent nuts from becoming loose. No unfilled holes shall be left in any part of the structure.

#### **ASSEMBLY BY WELDING:**

- All field assembly by welding shall be executed in accordance with the requirements for shop fabrication. Where the steel has been delivered painted, the paint shall be removed before field welding for a distance of at least 50 mm on either side of the joints to be welded.
- All other requirements of welding and its acceptance standards shall be in accordance with clauses specified in TCE.M4-405-01(Supply and Fabrication of structural steel).

#### **Assembly by High Strength Friction Grip Bolts (HSFG Bolts)**

- Assembly of structures with HSFG bolts shall conform to IS:4000
- The mating surface shall be prepared in accordance with the requirements of design in order to achieve required properties to develop adequate friction between the surfaces.
- The mating surfaces shall be absolutely free from grease. Lubricant, dust, rust etc and shall be thoroughly cleaned before assembly. The nuts shall be tightened up to the specific torque with the help of torque wrench or by half-turn method with the help of pneumatic wrench lever.
- The direction of tightening of the nuts shall be from the middle towards the periphery of assembly.
- After desired tightening the bolt heads, nuts and edges of the mating surfaces shall be sealed with a coat of paint to obviate entry of moisture.
- 

#### **13.10 INSPECTION**

ENGINEER/EMPLOYER or their authorised representatives shall have free access to all parts of the job during erection and all erection shall be subjected to their approval. In case of faulty erection, all dismantling and re-erection required will be at CONTRACTOR's cost. No paint shall be applied to rivet heads or field welds or bolts until these have been approved by ENGINEER.

#### **13.13 TOLERANCES**

Tolerances mentioned below shall be achieved after the entire structure or part thereof is in line, level and plumb. The tolerances specified below do not apply to steel structures where the deviations from true position are intimately linked with and directly influence technological process. In such cases, the tolerances on erected steel structures shall be as per recommendations of process technologists/suppliers which will be indicated in the drawings.

#### **COLUMNS**

- Deviation of column axes at foundation top level with respect to true axes
  - (a) In longitudinal direction:  $\pm 5$  mm
  - (b) In lateral direction:  $\pm 5$  mm

Deviation in the level of bearing surface of  $\pm 5$  mm

Columns at foundation top with respect to True level Out of plumbness (verticality) of column Axis from true vertical axis, as measured at Column top:

- (a) For columns up to and including  $15 \pm 1/1000$  of column height in mm or  $\pm 15$  mm Meters in height whichever is less.
- (b) For columns exceeding 15 meters  $\pm 1/1000$  of column height in mm or  $\pm 20$  mm in height Whichever is less.

Deviation in straightness in  $\pm 1/1000$  of column height in mm or  $\pm 10$  mm Longitudinal and transverse planes of whichever is less. Column at any point along the height

Difference in erected position of adjacent Pairs of columns along length or across  $\pm 10$  mm

Width of building prior to connecting width of building prior to connecting Trusses/beams with respect to true distance

Deviation in any bearing or seating level  $\pm 5$  mm with respect to true level

Deviation in differences in bearing levels of a member on adjacent pair of columns both  $\pm 10$  mm Across and along the building

### **TRUSSES AND BEAMS**

Shift at the centre of span of top chord  $\pm 1/250$  of height of truss in mm or  $\pm 15$  Member with respect to the vertical plane mm Whichever is less. Passing through the centre of bottom chord

Lateral shift of top chord of truss at the Centre of span from the vertical plane whichever  $\pm 1/1500$  of span of truss in mm or  $\pm 15$  passing through the centre of support of the truss mm whichever is less

Lateral shift in location of truss from its true Vertical position  $\pm 10$  mm

Lateral shift in location of purlin true Position  $\pm 5$  mm

Deviation in difference of bearing levels of Trusses or beams from the true difference

- i)  $\pm 20$  mm for trusses

- ii) For beams:

Depth  $< 1800$  mm:  $\pm 6$  mm

Depth  $> 1800$  mm:  $\pm 10$  mm

Deviation in sag in chords and diagonals of Truss between node points  $1/1500$  of length in mm or 10mm whichever is smaller

Deviation in sweep of trusses, beams etc in  $1/1000$  of span in mm subject The horizontal plane to a maximum of 10 mm

### **CRANE GIRDERS & RAILS**

Shift in the centre line of crane rail with respect to centre line of web of crane girder  $\pm 5$  mm

Shift in plan of alignment of crane rail with respect to true axis of crane rail at any point  $\pm 5$  mm

Difference in alignment of crane rail in plan measured between any two points  $2 \pm 1$  mm meters apart along rail

Deviation in crane track with respect to time gauge

- (a) For track gauges up to and including  $\pm 5$  mm 15 meters

- (b) For track gauges more than 15 Meters  $\pm [5 + 0.25 (S-15)]$  where S in meters is true gauge

Deviation in the crane rail level at any Distance point from true level  $1/1200$  of the gauge or  $\pm 10$  mm whichever is less

Difference in the crane rail actual levels Between any two points 2 meters apart Along the rail length  $\pm 2$  mm

Difference in levels between crane track Rails at

- (a) Supports of crane girders  $\pm 15$  mm

(b) Mid span of crane girders  $\pm$  20 mm 2 mm subject to grinding of surfaces

Relative shift of crane rail surfaces at a smooth transition. joint in plan and elevation

Relative shift in the location of crane stops end buffers) along the crane tracks with 1/1000 of track gauge S in mm subject to track gauge S in mm maximum of 20mm

#### **13.40 PAINTING**

After steel has been erected, all bare and abraded spots, field welds, bolt heads and nuts shall be spot painted. Before paint is applied, the surface shall be dry and free from dust, dirt, scale and grease.

#### **13.15 CLEAN UP OF WORK SITE**

During erection, the CONTRACTOR shall without any additional payment, at all times keep the working and storage areas used by him, free from accumulation of waste materials or rubbish. Before completion of erection, he shall remove or dispose of in a satisfactory manner all temporary structures, waste and debris and leave the premises in a condition satisfactory to EMPLOYER/ENGINEER.

#### **13.16 PAINTING OF STRUCTURAL STEEL**

This specification covers the general requirements for shop and field painting for Structural Steel works using hot /cold rolled steel sections joined by using bolting and/or welding.

Briefly the scope of works covered under this specification are;

- i. Supply of all primers, paints and all other materials required for painting other than Employer's supply.
- ii. Furnishing of all labor, materials, tools & equipment and the performance of all operations and incidentals necessary for surface preparation, painting, handling, storing, transporting, scaffolding etc.
- iii. Testing of paints as per the relevant codes in the Standard Laboratory identified by the Employer and furnishing of required test certificates for Employer's approval.
- iv. Repair work of damaged / pre-erection / fabrication shop primer and weld joints at field.
- v. Inspection of painting system after its application to conform to the specification requirement.
- vi. Any other requirement as required for satisfactory completion of specified work.

Reference shall be made to Data Sheet-A for Paint system and Data Sheet-B for the structures covered in the scope of works.

#### **13.17 EXCLUSIONS**

This specification excludes paintings of the following structures /equipment. Mechanical & electrical equipment and parts.

- i. Buried & Overhead piping works
- ii. Storage tanks
- iii. Insulated parts

#### **13.18 APPLICABLE CODES, STANDARDS**

The pertinent clauses of the following Indian / International Codes, Standards And Specification (latest editions including all applicable official amendments, Reaffirmations and revisions) shall apply to the material and workmanship covered by this specification. In the event of the conflict of certain requirements between this specification and the codes referred herein, this specification shall govern.

It is not the intent to specify herein all the codes and standards required for the satisfactory

completion of work. The list of codes and standards indicates certain primary codes & standards and not all the codes required for the work under the contract. It is understood that all the pertinent codes and standards shall form the part of this specification whether explicitly indicated or not.

#### **Indian Standard Codes**

1. IS:5 Colours for ready mixed paints and Enamels
2. IS:101 Methods of sampling and test for paints, varnishes and related products (all parts & all sections).
3. IS:104 Ready mixed paint, brushing, zinc chrome, priming
4. IS:158 Ready Mixed paint, Brushing, Bituminous, Black, Lead free, Acid, Alkali and heat resisting.
5. IS:1303 Glossary of Terms relating to paints
6. IS:1477 Code of practice for painting of ferrous metals in Buildings.
7. IS:2932 Enamel, synthetic, exterior:(a) undercoating (b) finishing- Specification
8. IS: 9954 Pictorial Surface Preparation Standards for Painting of Steel Surfaces.
9. IS:13183 Aluminium paint, Heat resistant-specification.
10. IS:2074 Ready Mixed Paint, Air Drying, Red Oxide Zinc Chrome, Priming -Specification.

#### **International Standard Codes**

- i. SSPC Society for Protective Coatings (USA) Volt I & II
- ii. NACE National Association of Corrosion Engineers, USA(NACE)
- iii. ISO 8501 Preparation of Steel Substrates before application of Paints and related products. Visual assessment of Surface cleanliness. (Part 1&2)
- iv. ISO 8502 Preparation of Steel Substrates before application of Paints and related products-Tests for assessment of Surface cleanliness. (Part 1-4)
- v. ISO 8503 Preparation of Steel Substrates before application of Paints and related products-Surface roughness Characteristics of blast-cleaned steel substrates. Part 1& 2

Following list of approved vendors are provided for different materials. However contractor may procure from other equivalent vendors after approval from employer.

SR. NO.	PRODUCT	BRAND, AGENCY
1.	Cement	Konark, ACC, Ultra Tech
2.	Steel	Bhusan, Jindal, SAIL

## **PROCEDURE UNDER E-TENDERING**

### **INSTRUCTIONS TO APPLICANTS**

#### **DEFINITIONS:**

- a) Tender portal: The e-Procurement Portal of Government of Odisha introduced for the process of e-Tendering which can be accessed on <https://www.tendersodisha.gov.in>.
- b) Use of valid Digital Signature Certificate of appropriate class (Class II or class III) issued from registered certifying authorities (CA) as stipulated by Controller of Certifying Authorities (CCA), Government of India such as n- Code, Sify, TCS, MTNL, e-Mudhra is mandatory for all users.
- c) For all purpose, the server time displayed in the e-Procurement portal shall be the time to be followed by all the users.

Words in capital and not defined in this document shall have the same meaning as in the Request for Proposal ("BID").

#### **1. PARTICIPATION IN BID:**

##### **1.1 PORTAL REGISTRATION:**

The Contractor/Bidder intending to participate in the bid is required to register in the portal using his/her active personal/official e-mail ID as his/her Login ID and attach his/her valid Digital signature certificate (DSC) to his/her unique Login ID. He / She has to submit the relevant information as asked for about the firm/contractor. The portal registration of the bidder/firm is to be authenticated by the State Procurement Cell after verification of original valid certificates/documents such as (i) PAN and (ii) Registration Certificate (RC) / VAT Clearance Certificate (for procurement of goods) /GST Certificate of the concerned bidder. The time period of validity in the portal is at par with validity of RC/ VAT Clearance/GST Certificate. Any change of information by the bidder is to be re authenticated by the State Procurement Cell. After successful authentication bidder can participate in the online bidding process.

1.2 Bidders participating through Joint Venture shall declare the authorized signatory through Memorandum of Understanding duly registered and enroll in the portal in the name and style of the Joint venture Company. It is mandatory that the DSC issued in the name of the authorised signatory is used in the portal. For participating in the tender, the authorized signatory holding Power of Attorney shall be the Digital Signatory. In case the authorized signatory holding Power of Attorney and Digital Signatory are not the same, the bid shall be considered non-responsive.

1.3 Any third party/company/person under a service contract for operation of e- Procurement system in the State or his/their subsidiaries or their parent companies shall be ineligible to participate in the procurement process that are undertaken through the e-Procurement system irrespective of who operates the system.

#### **2. LOGGING TO THE PORTAL:**

The Contractor/Bidder is required to type his/her Login ID and password. The system will again ask to select the DSC and confirm it with the password of DSC as a second stage authentication. For each login, a user's DSC will be validated against its date of validity and also against the Certificate Revocation List (CRL) of respective CAs stored in system database. The system checks the unique Login ID, password and DSC combination and authenticates the login process for use of portal.

### **3. DOWNLOADING OF BID:**

The bidder can download the tender of his choice and save it in his system and undertake the necessary preparatory work off-line and upload the completed tender at his convenience before the closing date and time of submission.

### **4. CLARIFICATION ON BID:**

The bidder may ask question related to tender online in the e-procurement portal within the period of seeking clarification. The Officer inviting the bid /Procurement Officer-Publisher will clarify queries related to the tender.

### **5. PREPARATION & SUBMISSION OF BID**

5.1 Detailed BID may be downloaded from Tender Portal for detail study and preparation of his bid and the Application may be submitted online following the instructions appearing on the screen.

5.2 The following shall be the form of various documents in the Application:

#### **A. Only Electronic Form (to be uploaded on the Tender Portal)**

- (a) Power of Attorney for signing the Application
- (b) If applicable, the Power of Attorney for Lead Member of JV;
- (c) Copy of Memorandum of Understanding between JV partners, if applicable.
- (d) Copy of Memorandum of Understanding with Associate, if applicable.
- (e) Technical proposal as per format prescribed as per clause no 102 of BID
- (f) Bid Security of Rs. 60,000 (Rupees Sixty Thousands only) in shape of Demand Draft in Schedule Bank , Fixed Deposit Receipt of Nationalized /Scheduled Bank /Kissan Vikash Patra / Post Office Savings Bank Account / National Savings Certificate / Postal Office Time Deposit Account/Bank Guarantee of Nationalised bank/Scheduled Bank of India counter guaranteed by local branch at Rourkela for validity of 180 day Rourkela Payable at Rourkela in favor of beneficiary mentioned in the Instruction to Bidder or as per DTCN
- (g) Price Bid as per BOQ.
- (h) Other documents as per requirement of BID.

5.3 The Applicant shall upload scanned copies of the documents as specified in

5.2(A) above on the Tender Portal in designated locations of Technical Proposal and Price Bid(BOQ) before 15:00 hours Indian Standard Time on the Application due date i.e. on 29.12.2025 (date to be specified).

5.4 It may be noted that the scanned copies can be prepared in file format i.e. PDF and/or JPEG only. The Applicants can upload a single file of size of 5 MB only but can upload multiple files.

5.5 The bidder shall log on to the portal with his /her DSC and more to the desired tender for up loading the documents in appropriate place one by one simultaneously checking the documents.

5.6 Bids cannot be submitted after due date and time. The bids once submitted cannot be viewed, retrieved or corrected. The Bidder should ensure correctness of the bid prior to uploading and take print out of the system generated summary of submission to confirm successful uploading of bid.

The bids cannot be opened even by the OIT or the Procurement Officer Publisher/ opener before the due date and time of opening.

5.7 Each process in the e-procurement is time stamped and the system can detect the time of log in of each user including the Bidder.

5.8 The Bidder should ensure clarity/legibility of the document uploaded by him to the portal.

5.9 The system shall require all the mandatory forms and fields filled up by the contractor during the process of submission of the bid/tender

5.10 The bidder should check the system generated confirmation statement on the status of the submission.

5.11 The Bidder should upload sufficiently ahead of the bid closure time to avoid traffic rush and failure in the network.

5.12 The tender inviting officer is not responsible for any failure, malfunction or breakdown of the electronic system used during the e-procurement process.

5.13 The Bidder is required to upload documents related to his eligibility criteria and qualification information and Price Bid(BOQ) duly filled in.

5.14 The Bidder will not be able to submit his bid after expire of the date and time of submission of bid (server time). The date and time of bid submission shall remain unaltered even if the specified date for the submission of bids declared as a holiday for the Officer Inviting the Bid.

#### **6. SIGNING OF BID:**

The ‘online bidder’ shall digitally sign on all statements, documents, certificates uploaded by him, owning responsibility for their correctness /authenticity as per IT ACT 2000. If any of the information furnished by the bidder is found to be false / fabricated / bogus, his EMD/ Bid Security shall stand forfeited & his name shall be recommended for blocking of portal registration and the bidder is liable to be blacklisted.

#### **7. SECURITY OF BID SUBMISSION:**

7.1 All bid uploaded by the Bidder to the portal will be encrypted.

7.2 The encrypted Bid can only be decrypted / opened by the authorized openers on or after the due date and time.

#### **8. RESUBMISSION AND WITHDRAWAL OF BIDS:**

8.1 Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.

8.2 Resubmission of bid shall require uploading of all documents including price bid a fresh.

8.3 If the bidder fails to submit his modified bids within the pre-defined time of receipt, the system shall consider only the last bid submitted.

8.4 The bidder should avoid submission of bid at the last moment to avoid system failure or malfunction of internet or traffic jam or power failure etc.

8.5 The Bidder can withdraw his bid before the closure date and time of receipt of the bid by uploading scanned copy of a letter addressing to the Procurement Officer Publisher (Officer Inviting Tender) citing reasons for withdrawal. The system shall not allow any withdrawal after expiry of the closure time of the bid.

#### **9 OPENING OF THE BID:**

9.1 Bid opening date and time is specified during tender creation or can be extended through corrigendum. Bids cannot be opened before the specified date & time.

9.2 All bid openers have to log-on to the portal to decrypt the bid submitted by the bidders.

9.3 The bidders & guest users can view the summary of opening of bids from any system. Contractors are not required to be present during the bid opening at the opening location if they so desire.

9.4 In the event of the specified date of bid opening being declared a holiday for the Officer inviting the Bid, the bids will be opened at the appointed time on the next working day.

9.5 Combined bid security for more than one work is not acceptable.

#### **10. EVALUATION OF BIDS:**

10.1 All the opened bids shall be downloaded and printed for taking up evaluation.

The officer authorized to open the tender shall sign and number on each page of the documents downloaded and furnish a certificate that “the documents as available in the portal containing--- nos of pages”.

10.2 The bidder may be asked in writing/ online to clarify on the uploaded documents provided in the Technical Bid, if necessary, with respect to any doubts or illegible documents. The officer inviting tender may ask for any other document of historical nature during Technical evaluation of the tender. Provided in all such cases, furnishing of any document in no way alters the Bidder’s price bid. Non submission of legible documents may render the bid non-responsive.

10.3 The bidders will respond in not more than 7 days of issue of the clarification letter, failing which the bid of the bidder will be evaluated on its own merit.

10.4 The Technical evaluation of all the bids shall be carried out as per information furnished by Bidders.

10.5 The Procurement Officer-Evaluators; will evaluate bid and finalize list of responsive bidders.

10.6 The financial bids of the technically responsive bidders shall be opened on the due date of opening. The Procurement Officer-Openers shall log on to the system in sequence and open the financial bids.

10.7 The Financial Bid will be opened on the notified date & time in the presence of bidders or their authorised representative who wish to be present.

10.8 At the time of opening of “Price Bid(BOQ)”, bidders whose technical bids were found responsive and qualified will be opened.

10.9 The responsive bidders’ name, bid prices will be announced.

10.10 Procurement Officer-Openers shall sign on each page of the downloaded Price Bid(BOQ).

10.11 Bidder can witness the principal activities and view the documents/summary reports for that particular work by logging on to the portal with his DSC from anywhere.

10.12 System provides an option to Procurement Officer Publisher for reconsidering the rejected bid with the approval of concern Chief Engineer / Head of Department.

10.13 The L-1 bidder shall have to produce the original documents in support of the scanned copies and statements uploaded in the portal within 5 days of opening of price bid.

#### **DISCLAIMER**

The Applicant must read all the instructions in the BID and submit the same accordingly