



**CHANDIGARH
HOUSING BOARD**
A CHANDIGARH ADMINISTRATION UNDERTAKING

**8 JAN MARG, SECTOR 9-D
CHANDIGARH**

**BID DOCUMENT
FOR
STRENGTHENING BASE OF UNDER
GROUND RCC CABLE TRENCH AT RGCTP
HABITAT PROJECT I.T.PARK,
CHANDIGARH**

Date of release / publishing of tender _____/2021



Last Date of Submission of document : _____, 2021 [Rs.1000 + 18% GST] **Price Rs.1180/-**

Website: <http://etenders.chd.nic.in/nicgep>

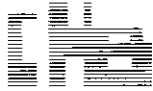
Tel: 0172-4601710

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PART-I

PS



CHANDIGARH HOUSING BOARD

PRESS NOTICE

(To be issued for Publication in Newspapers)

Notice Inviting e-Tenders

Executive Engineer- IV on behalf of the Chairman, Chandigarh Housing Board invites sealed Percentage Rate Tenders through e-Procurement process from the enlisted Agencies/ Firms/ Contractors/ Tenderer having valid enlistment certificate issued by any one of the specified departments i.e. UT Engineering Department/ Municipal Corporation Chandigarh / CPWD / MES / Punjab PWD / Haryana PWD / Himachal PWD/other State Govt. Departments, Boards / Corporations and PSUs for the work '**Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T..Park, Chandigarh**'.

Estimated Cost:- Rs.67,79,597/- Earnest Money:- Rs.1,36,000/-, Document Fee:-Rs.1180/-, Period of Completion:- 75 days, Last date of submission of bid online is __/__/2021, Last date of physical submission of bid & date of opening bid is __/__/2021.

For detail Milestone dates of Electronic Tendering are given at the website <http://etenders.chd.nic.in/nicgep>. Tel: 0172-4601710



Detail Regarding Tendering Process

Name of work	'Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh'	
Estimated composite cost (Rs. In Lakh)	Total Cost: Rs.67.80 Lakh	
Period of Contact	75 days	
Name of the Employer	Chandigarh Housing Board.	
Address of the Employer	8 Jan Marg, Sector 9 D Chandigarh	
Mode	E-Tendering	
Website	https://etenders.chd.nic.in/nicgep/app	
Document Fee (Non Refundable)	Rs. 1180/- (non-refundable/non adjustable) inclusive of GST to be submitted on line through e-tendering portal i.e. https://etenders.chd.nic.in Bidder can submit their bid only after depositing online. The payment may be deposited by bank to bank transfer using SBI* MOPS or RTGS/NEFT transfer through https://etenders.chd.nic.in portal. The bidder must upload the copy of UTR No/ Transaction slip on the web site. The hard copy shall be placed in Envelop 'A'.	
Integrity Pact duly filled, signed & stamped	The bidder must upload the copy on the web site. The hard copy shall be placed in Envelop 'A'.	
Milestone Dates		
Downloading of e-tender document	Start date:	/ / 2021 at 1000 Hrs.
	End date:	/ / 2021 upto 1700 Hrs.
Clarification regarding plans specifications schedule of quantities & set of terms	Start date:	/ / 2021 at 1000 Hrs.
	End date:	/ / 2021 upto 1700 Hrs.
Date of submission of e-tender	Start date:	/ / 2021 at 1000 Hrs.
	End date:	/ / 2021 upto 1700 Hrs.
Physical submission of Tender including EMD, Tender Document Fee, Documents required for eligibility & other necessary documents.	Start date:	/ / 2021 at 1000 Hrs.
	End date:	/ / 2021 upto 1100 Hrs.
Opening of technical bid (Online)	/ / 2021 upto 1130 Hrs.	
Opening of price bid (Online)	To be intimated to all eligible Bidders separately	
Bid validity period	Seventy Five (75) days from the last day of receipt of Technical Bid.	



Earnest Money Deposit	<p>The EMD required for placing the e-bid shall be Rs. 1,36,000/- to be submitted on line through e-tendering portal i.e. https://etenders.chd.nic.in Bidder can submit their bid only after depositing EMD online.</p> <p>The payment may be deposited by bank-to-bank transfer using SBI MOPS or RTGS/NEFT transfer through https://etenders.chd.nic.in portal</p> <p>The amount of EMD is refundable and adjustable. The EMD shall be refunded online to the bidder account in case of all unsuccessful e-bids, provided it is not forfeited.</p> <p>The bidder must upload the copy of UTR No/ Transaction slip on the web site. The hard copy shall be placed in Envelop 'A'.</p>
Proformance Security	<p>The bidder, whose tender has been accepted, will be required to furnish 'Performance Guarantee' of 3% (Three percent) of the tendered amount within the period specified in Schedule 'F'. This guarantee shall be in form of cash (in case guarantee amount is less than Rs.10000/-) or Deposit at call Receipt of any scheduled bank/ Banker's Cheque of any scheduled Bank/ Demand draft of any scheduled bank/ Pay Order of any scheduled bank (in case guarantee amount is less than Rs.100000/-) or Govt. security or fixed deposit receipt or Guarantee Bonds of any scheduled bank or State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.</p>



LIST OF DOCUMENT TO BE UPLOADED BY THE BIDDERS

1.	Fee
	i) EMD
	ii) Document Fee
	iii) Integrity Pact Annexure-IV, IV-A & IV-B duly filled, signed & stamped in the presence of a witness
	iv) Check List
2.	Post Qualification /Technical
	i. Form 'A' Letter of Transmittal as per attached proforma in Section-II.
	ii. Valid Enlistment certificate issued by any one of the specified departments.
	iii. Valid Civil contractor License
	iv. Form 'B' Similar works during the last seven years
	v. Form 'C' Performance Report of works given in Form 'B'.
	vi. Certified copy of the power of attorney by the applicant in case of Non Consortium member as per Annexure-II
	vii. Affidavit as per Annexure-I regarding no criminal proceedings and confirmation that eligible similar works have not been got executed on back to back basis
	viii. Certificate of Registration under GST and acknowledgement of up to date filed return
	ix. Copy of PAN
	x. Certificate of registration with EPFO, ESIC and labour license
	xi. Any other document as specified in the bid document.
3.	Finance
	Financial Bid

NOTE: - Hard copies of the documents except Financial Bid listed at Sr. No.3 above shall be submitted by the bidders.



'CHECK LIST TO ACCOMPANY THE 'ELIGIBILITY DOCUMENTS'

S. No.	Description	Remarks
1.	Whether the Earnest Money as per the Press Notice has been attached?	Yes / No
2.	Whether the cost of Document as per the Press Notice has been appended?	Yes / No
3.	Whether the Integrity Pact duly filled, signed & stamped has been attached?	Yes / No
4.	Whether valid Enlistment certificate issued by any one of the specified departments.	Yes / No
5.	Whether the copy of valid Civil contractor License has been uploaded?	Yes / No
6.	Whether definite proof from appropriate authority of having satisfactorily completed similar works during the last seven years ending last day of the month previous to the one in which tender is invited has been attached?	Yes / No
7.	Whether the Form 'A' Letter of Transmittal as per attached proforma in Section-II has been submitted?	Yes / No
8.	Whether the Form 'B' - Details of similar works completed during last 7 years has been submitted?	Yes / No
9.	Whether the Form 'C' - Performance Report of works referred to in Form-B has been submitted?	Yes / No
10.	Whether the Affidavit as per Annexure-I have been submitted?	Yes / No
11.	Whether the Power of Attorney as per Annexure-II has been submitted?	Yes / No
12.	Whether any additional condition in tender has been quoted?	Yes / No
13.	Whether the Scanned copies of self attested documents related to E.M.D., cost of Document & other eligibility document has been uploaded along with the Bid?	Yes / No
14.	Whether all the statements, documents, certificates, uploaded owning responsibility for their correctness/ authenticity have been signed?	Yes / No
15.	Whether the certificate of registration of GST if already obtained & acknowledgement of filed GST returns (if any) submitted/ uploaded as per bid document?	Yes/ No
16.	Whether the Copy of PAN has been submitted/ Uploaded?	Yes / No
17.	Whether the Certificate of registration with EPFO, ESIC and labour license has been submitted/ Uploaded?	Yes / No

DECLARATION

1. I/We _____ have carefully gone through all the conditions mentioned in the Bid Document and solemnly declare and affirm that I/we will abide by any penal action of CHB for disqualification or of black listing or determination of contract or any other action as deemed fit, taken by, the Department against me/us, in the event of



any of the contents of our this application, the statements, documents, and certificates produced by me/us have been found/declared to be false/fabricated without any liability on CHB.

2. I/We hereby further declare that the Tender has been completed and submitted by us in the manner prescribed in the document and consider myself/ourselves eligible and in possession of all the documents required.

3 I/We hereby also declare that, I/We have not been blacklisted/ debarred/ Suspended/ demoted by any department of Chandigarh Administration or in of any state/Union Territory of the Republic of India for any reasons what so ever.

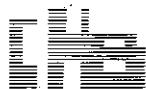
Date

Signature of the Bidder (s)
(Full name in capitals)
Designation



**CHANDIGARH HOUSING BOARD
NOTICE INVITING TENDER.**

<p>1. Executive Engineer- IV on behalf of the Chairman, Chandigarh Housing Board invites sealed Percentage Rate Tenders through e-Procurement process from the enlisted Agencies/ Firms/ Contractors/ Tenderer having valid enlistment certificate issued by any one of the specified departments i.e. UT Engineering Department/ Municipal Corporation Chandigarh / CPWD / MES / Punjab PWD / Haryana PWD / Himachal PWD/other State Govt. Departments, Boards / Corporations and PSUs as detail below:-</p>						
Name of work and location.	Estimated cost put to Bid (in Lakh)	Earnest Money	Document Fee	Period of completion	Last date & time of submission of Bid, copy of receipt of deposition of original EMD & other documents as specified in the NIT	Time & date of opening of Technical Bid.
Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh	Rs. 67.80 Lakh	Rs. 1,36,000/-	Rs. 1180/-	75 days	____. ____ . 2021	____. ____ . 2021
<p>*Website for detail of Milestones dates of Electronic Tendering please refer http://etenders.chd.nic.in/nicegp</p>						
<p>Initial criteria for Eligibility for tender.</p>						
1.2	<p>Applicants who fulfill the following requirements shall only be eligible to apply.</p>					
a)	Should have valid Enlistment certificate issued by any one of the above specified departments.					
b)	Should have valid Civil contractor License					
c)	Should have satisfactorily completed similar nature of works during the last seven years ending last day of the month previous to the one in which tender is invited. Three similar works each costing not less than Rs.27.12 Lakh or two similar works each of costing not less than Rs.40.68 Lakh or one similar work of costing not less than Rs. 54.24 Lakh					
	Similar work shall mean "Civil Work"					
	Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work. Bidder shall submit abstract of cost of work in support of this. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to the last date of submission of bid.					



	d)	<p>At the time of submission of bid, contractor uploads Income tax returns and balance sheets duly audited/verified by the Chartered Accountant & Profit/Loss statement during the last three years ending 31st March of the previous year duly signed by the CA.</p> <p>(This condition is applicable for the work costing above one crore)</p>
	e)	<p>GST registration Certificate, if already obtained by the bidder.</p> <p>If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with other bid documents.</p> <p>“If work is awarded to me, I/we shall obtain GST registration Certificate as applicable within one month from the date of receipt of award letter or before release of any payment by CHB, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CHB or GST department in this regard”.</p>
	Note	<p>All the documents shall be duly attested & counter signed by the agencies.</p>
2.		<p>Agreement shall be drawn with the successful Tenderer on the prescribed Format of CPWD Form 7/8, which is available for sale in the market. Tenderers shall quote their rates as per various terms and conditions of the said form which will form part of the agreement. However the definitions contained therein with regard to CPWD Department and other designated authorities may be read as under:-</p>
	As per General Conditions of Contract for Central P.W.D Works	To be read as
	CPWD	CHB
	President of India	Chairman, CHB
	Govt. of India	Chandigarh Housing Board
	Director General	Chairman, CHB
	Additional Director General	Chief Executive Officer, CHB
	Department	Chandigarh Housing Board
3.		<p>The time allowed for carrying out the work will be 75 days from the date of start as defined in Schedule 'F' of Financial Bid in Part-III of this document or from the first day of handing over of the site, whichever is later in accordance with the phasing, if any, indicated in the Tender Document. In case of non-handing over of any part of site, the extension in time limit for the proportional delay shall be allowed as per the agreement.</p>
4.		<p>The Site for the work is available.</p>



5.	i)	Bid document consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms and conditions of the contract to be complied with by the Contractor whose bid may be accepted and other necessary documents, can be seen in the office of the Executive Engineer-IV between 11.00 AM & 3.00 PM from _____ 2021 to _____ 2021 everyday except on Saturdays, Sundays and Public Holidays.
	ii)	Bid document excluding 'General Condition of Contract for Central PWD Works' (available in market for sale) for this work contract, can be downloaded from Chandigarh Administration web site http://chandigarh.gov.in . Bid document shall not be available on Chandigarh Administration website after the stipulated date & time for downloading.
		The cost of Tender document i.e. Rs. 1180/- will have to be deposited as mentioned in detail regarding tendering process. The hard copy shall be placed in Envelop 'A'.
	iii)	Earnest money amount will have to be deposited as mentioned in detail regarding tendering process in shape as prescribed shall also be placed in Envelop 'A' along with Integrity Pact duly filled, signed & stamped and Check List.
	iv)	Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.
6.	(a)	Downloading and submission of Tender including Financial Bid will be done by e-Procurement process through the web site of Chandigarh Administration web site: http://etenders.chd.nic.in/nicgp The agency shall upload Scanned copy of documents (duly attested and counter signed by agency) related to Earnest Money Deposit, Cost of Tender Document and 'Eligibility Documents'.



	<p>(b) Hard copies of the complete e-Tender i. e. 'Eligibility Documents' (except 'Financial Bid') are also to be submitted in sealed 'Envelopes B' duly labeled 'Name of Work', 'Name of Agency' and last date of submission of tender. Envelop 'A' and Envelop 'B' shall be submitted together in another sealed Envelop 'C' labeled with 'Name of Work', 'Name of Agency' and last date of submission of tender.</p> <p><u>Envelop 'C' as mentioned above must be submitted to the Superintendent(Admn.), in Room Number-39, upto 11.00 AM at CHB Block 'A' Chandigarh with in four working days i.e by 2021 from the last date of submission of Online e-Tender mentioned above. Failure to furnish the said original documents will entail rejection of Bid.</u></p> <p><i>Any Tender submitted through e- Procurement process but without physical submission of document mentioned above and without the acknowledgement of Superintendent (Admn.) will be treated as invalid and shall be rejected without opening. There will be not be any liability on CHB on this account.</i></p>
	<p>(c) Before proceeding further with the e- Procurement process, the envelope 'A' containing earnest money, cost of document, Integrity Pact duly filled, signed & stamped and Check List shall be opened first and Envelop 'B' containing 'Eligibility Document' of those agencies whose earnest money, cost of document & Integrity Pact duly filled, signed & stamped found in order shall be opened in the office of EE-IV, CHB by the committee on the 2021 at Hours</p>
	<p>(i) The department reserves the right to reject any or all the prospective applications without assigning any reason and/or to restrict the list of qualified contractors to any number as deemed suitable by it, if too many bids satisfying the laid down criteria have been received.</p>
7.	<p>The bidder, whose tender has been accepted, will be required to furnish 'Performance Guarantee' of 3% (three percent) of the tendered amount within the period specified in Schedule 'F'. This guarantee shall be in form of cash (in case guarantee amount is less than Rs.10000/-) or Deposit at call Receipt of any scheduled bank/ Banker's Cheque of any scheduled Bank/ Demand draft of any scheduled bank/ Pay Order of any scheduled bank (in case guarantee amount is less than Rs.100000/-) or Govt. security or fixed deposit receipt or Guarantee Bonds of any scheduled bank or State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.</p> <p>The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board and Programme chart (Time and Progress) within the period specified in Schedule F.</p>
8.	<p>The description of the work is as follows:</p>



Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh.	
	Copies of other drawings and documents pertaining to the works will be opened for inspection by the Tenderers at the office of the concerned EE of CHB. Tenderers are also advised to carefully 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 is 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 tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not. CHB will not accept any liability arising later on consequent to any misunderstanding or otherwise on the part of the tenderer. The tenderer shall be responsible for arranging and maintaining, at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for execution of the work unless otherwise specifically provided for in the contract document. Submission of a tender by a tenderer 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 stores, tools and plant, etc. if any are issued to him by the CHB and local conditions and other factors having a bearing on the execution of the work.
9.	The competent authority on behalf of the Chairman, CHB does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without assigning any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, the same shall be summarily rejected.
10.	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.
11.	The competent authority on behalf of the Chairman, Chandigarh Housing Board reserves with himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
12.	The contractor shall not be permitted to tender for works in the CHB. (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). 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 Chandigarh Housing Board. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
13.	No Engineer of Gazetted rank or other Gazetted officer employed in the Engineering or Administrative duties in an Engineering Department of the

Handwritten mark



	Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Chairman, CHB in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of the Chairman, CHB as aforesaid before submission of the tender or engagement in the contractor's service.
14.	The tenders for the work shall remain open for acceptance for a period of Seventy Five (75) days from the last day of receipt of Technical Bid. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, which-ever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Chairman, CHB shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re-tendering process of the work.
15.	This ' Bid Document ' shall form a part of the contract document. The successful tenderer/Bidder/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:
	a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as up loaded at the time of invitation of tender and the rates quoted on line at the time of submission of the Bid and acceptance thereof together with any correspondence leading there to.
	b) General condition of contract for Central PWD works 2019, tender form of CPWD 7/8 as amended from time to time.
16.	In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re-tendering process of the work.
17.	Any incorrectness / deviation if noticed in the documents submitted by the agency, the same shall be viewed seriously and apart from cancellation of the work/tender, forfeiture of EMD, Criminal action will be initiated including suspension of business.
18.	The tenderer is liable to be blacklisted and the EMD forfeited if he has been found to have misled or has furnished false information in the forms / statements / certificates submitted by him as proof in support of qualification requirements or record of performance such as abandoning of work not properly completed in earlier contracts, inordinate delays in completion of the works etc. etc.
19.	Any contractor offering lower rates after the opening of tenders shall be liable to be black-listed.
20.	All disputes concerning in any way with this work are subject to Chandigarh jurisdiction only.



21.	Before the last date for submission of Tenders, the Tender Inviting Officer may modify any of the Contents of the Tender Notice, Tender documents by issuing amendment / Addendum.
22.	Any addendum/amendments issued by the Tender Inviting Officer shall be part of the Tender Document.
23.	To give prospective Tenderer reasonable time to take an addendum into account in preparing their bids, the Tender Inviting Officer may extend if necessary, the last date for submission of tenders.
24.	The Executive Engineer will evaluate whether each Tenderer is satisfying the eligibility criteria prescribed in the tender document and declares them as a qualified Tenderer and selected for next stage of opening of Price Bid.
25.	If the technical bid of a Bidder is not satisfying any of the eligibility criteria it will be rejected by the Executive Engineer.
26.	If any alteration is made by the Bidder in the Bid documents, the conditions of the contract, the drawings, specifications or statements / formats or quantities the tender will be rejected.
27.	Bidder shall be scrutinized in accordance with the conditions stipulated in the Tender document. In case of any discrepancy of non-adherence Conditions the Tender accepting authority shall communicate the same which will be binding both on the tender Opening authority and the tenderer. In case of any ambiguity, the decision taken by the Tender Accepting Authority on tenders shall be final.
28.	The Executive Engineer will evaluate and compare the price bids of all the qualified Tenderer.
29.	The Bidder is advised to attach any additional information, which he thinks to be necessary in regard to his capabilities. No further information will be entertained after submission of application unless it is called for by the Board. The Board reserves the right to call for additional information & clarification of information submitted by the Tenderer.
30.	The cost incurred by the Bidder in preparing this application, in providing clarifications or attending discussions/ conferences in connection with this document shall be borne by the Tenderer and the Board in no case will be responsible or liable for these costs, regardless of the conduct or out come of the process.
31.	While execution of the work, if found that the contractor had produced false/ fake certificates of experience he will be black listed and the contract will be terminated.
32.	The department reserves the right to reject any prospective application without assigning any reason.



PART-II

**DOCUMENT RELATED
TO
ELIGIBILITY CRITERIA
AND
OTHER RELATED
DOCUMENTS**



SECTION - I

INFORMATION & INSTRUCTIONS FOR BIDDERS

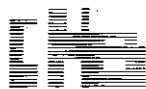


SECTION - I
INFORMATION & INSTRUCTIONS FOR BIDDERS

1.0	GENERAL:
1.1	Letter of transmittal and forms for deciding eligibility are given in Section III.
1.2	All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particular / query is not applicable in case of the Bidder, it should be stated as "Not Applicable". The Bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Bids made by telegram or telex and those received late will not be entertained.
1.3	The physical form of 'Eligibility Documents' should be scanned before uploading and duly self attested.
1.4	Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the Post-qualification document are numbered. Additional sheets, if any added by the contractor, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
1.5	References, information and certificates from the respective clients certifying suitability, technical know-how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer or equivalent.
1.6	The Bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of post-qualification document unless it is called for by the Employer.
1.7	The tenderer is liable to be blacklisted and the EMD forfeited if he has been found to have misled or has furnished false information in the forms / statements / certificates submitted by him as proof in support of qualification requirements or record of performance such as abandoning of work not properly completed in earlier contracts, inordinate delays in completion of the works etc.
1.8	All dispute concerning in any way are subject to Chandigarh Jurisdiction only.
1.9	The Board is under no obligation to inform the contractor of the reasons of their selection or rejection. Employer's decision in this regard shall be final and binding.



1.10	If at any stage, it is found that the tenderer has misled or has furnished false information in the forms / statements / certificates submitted by him as proof in support of qualification requirements or record of performance such as abandoning of work not properly completed in earlier contracts, inordinate delays in completion of the works, the tenderer is liable to be blacklisted & debarred from tendering in CHB and the EMD forfeited, Further, if this Contract has been awarded, the same shall be rescinded including forfeiture of EMD and Performance Guarantee.
2.0	DEFINITIONS:
	In this document the following words and expressions have the meaning hereby assigned to them:
	<ul style="list-style-type: none">• EMPLOYER means the Chairman, Chandigarh Housing Board, acting through the Executive Engineer.• BIDDER/TENDERER/FIRM/ AGENCY/CONTRACTOR/APPLICANT means the individual, proprietary firm, firm in partnership, limited company private or public or corporation or Joint Venture Company.• "Year" means "Financial Year" unless stated otherwise.• CHB/ Board means "Chandigarh Housing Board"
3.0	METHOD OF APPLICATION:
3.1	If the Bidder is an individual, the application shall be signed by him above his full typewritten name and current address.
3.2	If the Bidder is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.
3.3	If the Bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm. In the latter case, a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
3.4	If the Bidder is a limited company or a corporation, the application shall be signed by a duly authorised person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The Bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.
4.0	FINAL DECISION MAKING AUTHORITY.
	The employer reserves the right to accept or reject any Bid and to annul the post-qualification process and reject all Bids at any time, without assigning any reason or incurring any liability to the Bidders.
5.0	PARTICULARS PROVISIONAL
	The particulars of the work given in Section-I are provisional. They are liable to change and must be considered only as advance information to assist the Bidder.



6.0	SITE VISIT	
	The Bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to make himself aware of all information that he considers necessary for proper assessment of the prospective assignment.	
7.0	EVALUATION CRITERIA	
7.1	The details submitted by the Bidders will be evaluated in the following manner :	
	7.1.1	The initial criteria prescribed in Part-I, Para 1.2 above in respect of experience of similar class of works completed, Valid Enlistment Certificate etc. will first be scrutinized and the bidder's eligibility for the work be determined.
7.2	Even though any Bidder may satisfy the above requirements, he would be liable to disqualification if he has :	
	a)	Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document.
	b)	Record of poor performance such as abandoning work, not properly completing the contract, or financial failures/ weaknesses etc.
8.0	LETTER OF TRANSMITTAL	
	The Bidder should submit the letter of transmittal attached with document.	
9.0	OPENING OF PRICE BID	
	After evaluation of applicants, a list of short listed agencies will be prepared. Thereafter the financial bids of only the qualified and technically accepted bidders shall be opened at the notified time, date and place in the presence of the qualified bidders or their representative. The validity of the tenders shall be reckoned Seventy Five (75) days from the last day of receipt of technical bid.	
10.0	AWARD CRITERIA	
10.1	The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:	
	a)	Amend the scope and value of contract to the bidder.
	b)	Reject any or all of the applications without assigning any reason.
10.2	Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.	

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SECTION - II

INFORMATION REGARDING ELIGIBILITY



Form-A

LETTER OF TRANSMITTAL

From:

To

Executive Engineer-IV,
Chandigarh Housing Board,
Chandigarh.

Sub: Submission of Bid for the work 'Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh'.

Sir/Madam

Having examined the details given in Press Notice and Bid document for the above work, I / we hereby submit the documents related with the Eligibility Criteria & other relevant information and Financial Bid.

1. I / we hereby certify that all the statements made and information supplied in the enclosed Forms B to C and accompanying statement are true and correct.
2. I / we have furnished all information and details necessary for post-qualification eligibility and have no further pertinent information to supply.
3. I / We submit the Following certificates in support of our suitability, technical know how and capability for having successfully completed the following eligible similar works:-

Sr. No.	Name of work/ Project and location	Certificate from
1		
2		
3		

Certificate:-

It is certified that the information given in the enclosed eligibility bids are correct. It is also certified that I/we shall be liable to be debarred, disqualified/ cancellation of enlistment in case of any information furnished by me /us found to be incorrect.

Enclosures:

Seal of bidder
Date of submission

SIGNATURE(S) OF BIDDER(S)



STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCT HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

FORM 'B'

Details of eligible similar nature of works completed during the last seven years ending last day of the month previous to the one in which tender are invited.

S. No.	Name of work / project and location	Owner or sponsoring organisation	Cost of work in crores of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration cases pending / in progress with details*	Name and address/ telephone number of officer to whom reference may be made
1	2	3	4	5	6	7	8.	9

*Indicate gross amount claimed and amount awarded by the Arbitrator.
For details attached separate sheet.

SIGNATURE OF BIDDER(S)

EE-IV



FORM 'C'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "B"

1.	Name of work/Project & Location	
2.	Agreement No.	
3.	Estimated Cost	
4.	Tendered Cost i. Allotted Amount ii. Actual completed cost	
5.	Date of Start	
6.	Date of completion	
(i)	Stipulated date of completion	
(ii)	Actual date of completion.	
7.	a) Whether case of levy of compensation for delayed has been decided or not.	
	b) if decided, amount of compensation levied for delayed completion if any.	
8.	Performance Report	
	1) Quality of Work	Outstanding/Very Good/ Good / Poor
	2) Financial soundness	Outstanding/Very Good/ Good / Poor
	3) Technical Proficiency	Outstanding/Very Good/ Good / Poor
	4) Resourcefulness	Outstanding/Very Good/ Good / Poor
	5) General behavior	Outstanding/Very Good/ Good / Poor

Dated:

Executive Engineer or Equivalent

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ANNEXURE-I

**SPECIMEN PROFORMA FOR THE AFFIDAVIT TO BE SUBMITTED BY THE
APPLICANT ALONGWITH OTHER DOCUMENTS.**

(On Judicial Stamp paper duly attested by 1st class Magistrate or Notary Public)

I, _____ S/o Sh. _____ authorized
representative of _____ with its office at _____
solemnly affirm and declare as under on behalf of the firm:-

1. I/We in the name and style of **Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh.**
2. The undersigned hereby certify that there are no criminal proceedings pending/ongoing in any court of law regarding any construction project executed by me/us.
3. The undersigned hereby certify that all the documents and information submitted with the tender/Bid are 'True' & I/We stands fully responsible as per law for their genuineness and correctness.
4. I/we undertake and confirm that the eligible similar works has/have not been got executed through another contractor on back to back basis. Further that if such a violation comes to the notice of the department then I/we shall be debarred for tendering in CHB in future forever. Also if, such a violation comes to the notice of the department before the date of start of work then the CHB shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee deposited.

Place: _____
Dated: _____

Authorized Signatory of
firm/Deponent

VERIFICATION:

I the above named signatory/deponent do hereby solemnly affirm & declare that the contents of this affidavit are true to the best of my knowledge & nothing has been concealed therein.

Place: _____
Dated: _____

Authorized Signatory of
firm/Deponent



ANNEXURE-II

FORMAT FOR POWER OF ATTORNEY- by all individual Applicants

(on judicial Stamp paper duly attested by First Class Magistrate/Notary)

Dated: _____

To whomsoever it may Concern

Know all men by these presents, we _____ (name and registered office address of the Applicant) do hereby constitute, appoint and authorize Mr. _____ (Name of the Person(s)), domiciled at _____ (Address), acting as _____ (Designation and the name of the firm), as Authorized Signatory and whose signature is attested below, as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our request for prequalification work of _____, including signing and submission of all documents and providing information and responses to clarifications/enquiries etc. as may be required by CHB and signing of agreement if awarded the said work.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

For _____

(Signature)

(Name, Title and Address)

Accept

(Attested signature of Mr. _____)

(Name, Title and Address of the Attorney) _____

Notes:

- To be executed by the Applicant
- The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.
- Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a resolution / power of attorney in favor of the Person executing this Power of Attorney for the delegation of power hereunder on behalf of the executant(s)

Handwritten mark



ANNEXURE-III

On non-judicial stamp paper of minimum Rs. 100
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit/Performance Guarantee/Security
Deposit/Mobilization Advance

1. Whereas the Executive Engineer _____ (name of division), on behalf of the Chairman, CHB (hereinafter called "The Government") has invited bids under _____ (NIT number) _____ dated _____ for _____ (name of work). The Government has further agreed to accept irrevocable Bank Guarantee for Rs. _____/- (Rupees _____ only) valid up to _____ (date)* _____ as **Earnest Money Deposit** from _____ (name and address of contractor) _____ (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer _____ (name of division) CHB, Chandigarh on behalf of the Chairman, CHB (hereinafter called "The Government") has entered into an agreement bearing number _____ with _____ (name and address of the contractor) _____ (hereinafter called "the Contractor") for execution of work _____ (name of work) _____. The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. _____/- (Rupees _____ only) valid up to _____ (date)* _____ as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, _____ (indicate the name of the bank) _____ (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. _____/- (Rupees _____ only) on demand by the Government within 10 days of the demand.
3. We, _____ (indicate the name of the Bank) _____ do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____/- (Rupees _____ only).
4. We, _____ (indicate the name of the Bank) _____, further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, _____ (indicate the name of the Bank) _____ further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the



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

6. We, _____ (indicate the name of the Bank) _____ further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We, _____ (indicate the name of the Bank) _____, undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up to _____, unless extended on demand by the Government. Notwithstanding anything mentioned above. Our liability against this guarantee is restricted to Rs. _____/- (Rupees _____ only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date _____

Witnesses:

1. Signature _____
Name and address _____

Authorized signatory
Name _____
Designation _____
Staff code no. _____
Bank seal _____

2. Signature _____
Name and address _____

*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/Security deposit/mobilization advance, as the case may be.



ANNEXURE-IV

To,

The Bidder.....
.....
.....

Subject:

NIT No. for the work 'Strengthening base
of under ground RCC cable trench at RGCTP Habitat Project I.T.Park,
Chandigarh'.

Dear Sir,

It is here by declared that CHB is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CHB.

Yours faithfully

Executive Engineer-IV



Integrity Pact

To,

Executive Engineer-IV,
Chandigarh Housing Board
Chandigarh

Sub: Submission of Tender for the work '**Strengthening base of under ground
RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh**'.

Dear Sir,

I/We acknowledge that CHB is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that **THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE** of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by CHB. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, CHB shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)



ANNEXURE-IV -B

To be signed by the bidder and same signatory competent/ authorised to sign the relevant contract on behalf of CHB.

INTEGRITY PACT

(Integrity Pact is applicable for all works of estimated cost put to the tender equal to or more than the threshold value given in Schedule-F)

This Integrity Agreement is made at..... on this day of..... 20.....

BETWEEN

Chairman, Chandigarh Housing Board represented by the Engineer-in-Charge (hereinafter referred to as the Principal, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assignees)

AND

(Name and address of the bidder)

(Hereinafter referred to as the Bidder/Contractor and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assignees)

Preamble

WHEREAS the Principal has floated the tender (NIT No.) (hereinafter referred to as Tender) and intends to award, under laid down organizational procedure, contract for (Name of work) **'Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh'** hereinafter referred to as the "Contract".

AND WHEREAS the Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as Integrity Pact), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

~~In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned hereunder~~

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this integrity Pact witnesses as under:

Articles

Article 1: Commitment of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal will, in particular, before and during the Tender process, provide to a Bidder(s) the same information and we not provide to any Bidder(s)



confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/ Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - (a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - (b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - (c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - (d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/ parallel tender for the same item.
 - (e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
 - (f) ~~Bidder(s) / Contractor(s) who have signed the Integrity Pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision in the matter.~~
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.



4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice, willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use coercive practices (which shall include the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property) to influence their participation in the tendering process.

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal under law or the contract or its established policies and laid down procedures, the Principal shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal. Such exclusion may be forever or for a limited period as decided by the Principal.
2. Forfeiture of Earnest Money Deposit Performance Guarantee/Security Deposit: If the Principal has disqualified the Bidder(s) from the Tender process prior to the award of the contract, or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal apart from exercising any legal rights that may have accrued to the Principal, may in its considered opinion forfeit the entire amount of Earnest Money Deposit Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. Criminal Liability: If the Principal obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of PC Act, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last 3 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal.
3. If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any



violation(s) of the principles laid down in this agreement by any of its Subcontractors/sub-vendors.

2. The Principal will enter into pacts on identical terms as this one with all Bidders and Contractors.
3. **The Principal will disqualify Bidders who do not submit the duly signed Integrity Pact between the Principal and the Bidder along with the Tender or violate its provisions at any stage of the Tender process.**

Article 6- Duration of the Pact

This Integrity Pact begins when both the parties have legally signed it. It expires for the Contractor 12 months after the completion of work under the contract or expiry of defect liability period or last payment made under the contract, whichever is later and for all other bidders, 6 months after the Contract has been awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this Integrity Pact as specified above, unless it is discharged/determined by the ADG/SDG, CPWD concerned.

Article 7- Other Provisions

1. This Integrity Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Division of the Principal, who has floated the tender.
2. Changes and supplements as well as termination notice need to be made in writing.
3. If the Contractor is a partnership or a consortium, this Integrity Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Integrity Pact must be signed by a representative duly authorized by board resolution.
4. Should one of several provisions of this Integrity Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. ~~Issues like Warranty/Guarantee etc. shall be outside the purview of IEMs.~~
6. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Pact, any action taken by the Principal in accordance with this Integrity Pact or interpretation thereof shall not be subject to arbitration.
7. In view of the nature of integrity pact, the Integrity Pact is irrevocable and shall remain valid even if the main tender/contract is terminated till the currency of the integrity pact.
8. ~~If any complaint regarding violation of IP is received directly by the Principal in respect of the contract, the same shall be referred to the IEM for comments/recommendations.~~

Article 8- Independent External Monitor (IEM)

1. ~~The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission (Names and address of IEMs are as mentioned in Schedule F). The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently.~~
2. ~~The Monitor would have access to all contract documents, whenever required. It will be obligatory for him/her to treat the information and documents of the Bidders / Contractors as confidential.~~
3. ~~The Bidder(s)/Contractor(s) accepts that the IEM has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the IEM, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to sub-contractors.~~
4. ~~The IEM is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/ Sub-contractor(s) with confidentiality. The IEM has also signed Non~~




~~Disclosure of Confidential Information and Absence of Conflict of Interest. In case if any conflict of interest arising at a later date, the IEM shall inform the Engineer in Charge and recuse himself/herself from that case.~~

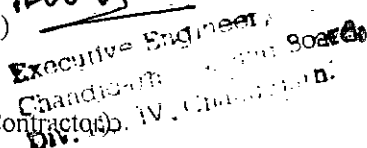
- ~~5. As soon as the IEM notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The IEM can in this regard submit non-binding recommendations. Beyond this, the IEM has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.~~
- ~~6. The IEM will submit a written report to the SDG/ADG concerned within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.~~
- ~~7. If the IEM has reported to the ADG/SDG concerned, a substantiated suspicion of an offence under relevant IPC/PC Act, and the ADG/SDG concerned has, within a reasonable time, not taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the IEM may also transmit this information directly to the Central Vigilance Commissioner.~~
- ~~8. The Principal will provide to the IEM sufficient information about all meetings among the parties related to the project provided such meetings could have impact on contractual relations between the Principal and the contractor. The parties will offer to the IEM the option to participate in such meetings.~~
- ~~9. The word IEM or monitor would include both singular and plural.~~

Article 9- Legal and Prior Rights

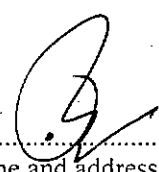
All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard to any of the provisions covered under this Integrity Pact.


IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal) 

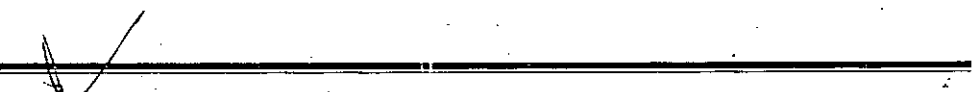
(For and on behalf of Bidder/Contractor) 
 Executive Engineer,
 Chandigarh Board,
 Div. IV, Chandigarh.

WITNESSES:

1 
 (Signature, name and address)

2 
 (Signature, name and address)

Place:
 Dated :
 Note: To be signed by the Bidder and the Engineer-in-Charge



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PART-III

FINANCIAL BID

**Special Conditions and other related documents
for submission of Financial Bid**





INSTRUCTIONS FOR CONTRACTORS

1. Tender to be witnessed at page No. 40-41 of Tender Documents.
2. The tender/ tenders containing conditions contrary to those specified in this document shall be summarily rejected.
3. In Schedule - 'A' appended to the Tender Documents, the %age rate must be filled both in words and figures. Accordingly, the overall quoted amount of the tender should be worked out.
4. The contractor(s) shall quote the rates keeping in mind, 'General Conditions of Contract of CPWD Works-2020' as amended from time to time, special contract conditions and particular specifications enshrined under the Bid Document etc.
5. The contractor(s) shall quote the rates keeping in mind, all taxes, GST etc. etc.



PART- A

CPWD FORM- 7 including Schedule A to F



C.H.B.-C.P.W.D - 7

CHANDIGARH HOUSING BOARD

STATE	U.T., Chandigarh	CIRCLE	II
BRANCH	Civil	DIVISION	IV, CHB
ZONE	Chandigarh	SUB DIVISION	IV

PERCENTAGE/ ITEM RATE TENDER & CONTRACTS FOR WORKS

A Tender for the work 'Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh'.

- i. To be submitted by 1100 Hours on _____ 2021 to Supdt. Admn., CHB.
- ii. To be opened in presence of tenderers who may be present at _____ Hours on _____ 2021 in the office of Executive Engineer-IV, Chandigarh Housing Board, Chandigarh.

Downloaded by _____ (contractor)

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Chairman, CHB within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for **Seventy Five (75) days** from the last day of receipt of technical bid and not to make any modifications in its terms and conditions.

A sum of **Rs.1,36,000/-** is hereby deposited by bank-to-bank transfer using SBI MOPS or RTGS/ NEFT transfer through [https:// etenders.chd.nic.in](https://etenders.chd.nic.in) portal. A copy of UTR No/ Transaction slip is scanned & uploaded. If I/we, fail furnish the prescribed performance guarantee within prescribed period, I/we agree that the said Chairman, CHB or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. Further, if I/we fail to commence work as specified, I/we agree that Chairman, CHB or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said Performance Guarantee absolutely, otherwise the said Performance Guarantee shall be a Guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2, 12.3 and 12.5 of the tender form.



STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/we undertake and confirm that the eligible similar works has/have not been got executed through another contractor on back to back basis. Further that if such a violation comes to the notice of the department then I/we shall be debarred for tendering in CHB in future forever. Also if, such a violation comes to the notice of the department before the date of start of work then the Engineer-in-charge shall be free to forfeit the entire amount of Earnest Money/ Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Signature of the contractor

Postal Address

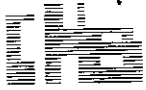
Dated _____

Witness: _____

Address: _____

Occupation: _____

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ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Chairman, Chandigarh Housing Board, for a sum of Rs. _____ (Rs. _____)

The letters referred to below shall form part of this contract Agreement--

a)

b)

c)

For & on behalf of the Chairman,
Chandigarh Housing Board
Chandigarh.

Signature

Dated

Designation

As



PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each of the intending tenderer)

SCHEDULE "A"

Schedule of Quantities for Work (Enclosed) which starts at page 49

SCHEDULE "D"

Extra schedule for specific requirements/documents for the work if any	Nil
--	-----

SCHEDULE "E"

Reference to General Conditions of contract of 2020 with amendments upto date

i)	Name of Work	'Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh'
ii)	Estimated cost of Work	Rs.67,79,597/-
iii)	Earnest Money	Rs.1,36,000/-
iv)	Performance Guarantee	3% of the tendered value
v)	Security Deposit	2.5% of tendered value

SCHEDULE "F"

Reference to General Conditions of Contract	GCC -2020 (Construction work) with latest ammendments
---	---

GENERAL RULES AND DIRECTIONS

Officers inviting tender :-	Executive Engineer-IV Chandigarh Housing Board, Chandigarh.
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined n accordance with	Refer Clause-12.
Clause 12.2, 12.3	
Definitions	
2(v) Engineer-in charge	Executive Engineer-IV, Chandigarh Housing Board, Chandigarh.

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STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

2(viii) Accepting Authority	Chandigarh Housing Board, Chandigarh.
2(x) Percentage on cost of materials and labour to cover all overheads and profit	15 %
2(xi) Standard Schedule of Rates	DSR- 2019
2(xii) Department	Chandigarh Housing Board, Chandigarh
2(xiii) Specifications	CPWD Latest specifications for Civil Works and all relevant IS standards as specified in Tender Document.
9(ii) Standard CPWD Contract form	GCC-2020, CPWD form 7, as modified & corrected up to last date of receipt of tender.
Clause 1	
i) Time allowed for submission of Performance Guarantee, programme chart (Time and progress)and applicable labour licenses , registration with EPFO, ESIC and BOCW welfare board or proof of applying there of from the date of issue of letter of acceptance	7 Days
ii) Maximum allowable extension beyond the period provided in (i) above. Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above	15 Days
Clause 2	
Authority for fixing compensation under clause-2	Superintending Engineer, CHB
Clause 2A	
Whether Clause 2A shall be applicable	No
Clause 5	
Authority for extending time and extension for delay and rescheduling of Mile stone. Shifting of date of start in case delay in handing over of site.	Executive Engineer
Number of days from the date of issue of letter of acceptance for reckoning date of start	10 Days
(i) Mile stone(s)	As per table of Milestone placed at Page No. 51-52.
(ii) Time allowed for execution of work	75 days
Athority to decide:-	
(i) Extention of time	Executive Engineer
(ii) Rescheduling of mile stones	Executive Engineer
(iii) Shifting of date of start in case of delay in handing over of site	Executive Engineer
Clause 7	
Gross work to be done together with net payment/ adjustment of advances for materials collected, if any, since the last such payment for being eligible to interim payment.	Rs.20,00,000/- subject to one payment per month.
Clause 7A	
Whether Clause 7A shall be applicable Clause 7A (No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC, whatever applicable are	Yes



**STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)**

submitted by the contractor to the Engineer-in-Charge.)		
Clause 10 A		
List of testing equipments to be provided by the contractor at site lab.		As Per CPWD works manual and CPWD specifications.
Clause 10 B		
Whether Clause 10 B (i) shall be Applicable		Not Applicable.
Whether Clause 10 B (ii) shall be Applicable		Not Applicable.
Whether Clause 10 B (iii) shall be Applicable.		Not Applicable.
Clause 10 C		
Component of labour expressed as percent of value of work		Not applicable, Labour component taken in 10CC
Clause 10 CA		
Materials covered under this clause		Nearest Material (other than cement, reinforcement bars and structural steel) for which All India Wholesale Price Index is to be followed as applicable on the last date of receipt of Tenders.
		Base price of all the materials covered under Clause-10 CA. as on Dec, 2020 for cement and steel.
Cement (PPC)		Rs.5,800/- Per Ton
Steel reinforcement bars (TMT=Fe-500D)		Rs.54,500/- Per Metric Ton (Primary Manufactures)
For calculating the price variation, the all India whole sale index (Clo) as on the last date of receipt of tender shall be considered irrespective of negotiations if any.		
Clause 10 CC		
		Not Applicable
Clause 11		
Specification to be followed for execution of work.		CPWD Specifications with correction slips upto date.
Clause 12		
Type of work		Project & Original work
Authority to decide deviation upto 1.5 times of tendered amount (for Maintenance works)		Not applicable
12.2 & 12.3		
Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for Major Componet i.e Building work.		100%
12.5		
(i)	Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation Work (except earth work)	100%
(ii)	Deviation limit for items in earth work sub head of DSR or related items	100%
Clause 16		
Competent authority for deciding reduced rates.		Superintending Engineer CHB
Clause 18		
List of mandatory machinery, Tools & Plants to be deployed by the contractor at site		(i) Pumps (ii) Chase Making Machines (iii) Welding Generator (iv)



Note: The listed T&P can be modified as per site requirement and direction of Engineer-in-Charge.					Concrete Vibrator (v) Steel shuttering & Scaffolding (vi) Safety equipment/ instruments etc.	
Clause 19 Labour Laws to be complied by the Contractor (in case contractor fails to comply, make arrangement and provide necessary facilities etc.)						
Clause 19 C					Rs. 500/- penalty for each default	
Clause 19 D					Rs. 500/- penalty for each default	
Clause 19 G					Rs. 500/- penalty for each default	
Clause 19 K					Rs. 500/- penalty for each default	
Clause 25						
Settlement of Dispute by Conciliation and Arbitration :					Conciliator , Arbitrator	
Clause 32 Requirement of Technical representatives and Recovery rates						
Sr. No.	Minimum qualification of Technical Representative	Designation of technical staff	Minimum Experience	Number	Rates at which recovery shall be made from contractor in the event of not fulfilling provisions of clause 32	
					Figures	Words
1.	Graduate Engineer Or Diploma Engineer	Principal Technical Representative (Project planning/Site/ Billing Engineer)	2 Years 5 Years	1 1	Rs. 15000/-	Rs. Fifteen thousand only

Assistant Engineer retired from Government Services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 34	
Extent of GST payable by Contractor for Building and Construction works	GST 12% Applicable. Any Increase/ decrease in the rate of GST as on the last date /extended date of submission of tender will be adjusted accordingly
Clause 38	
(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	DSR -2019



STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

printed by C.P.W.D.	
ii) Variations permissible on theoretical quantities:	
(a) Cement For works with estimated cost put to tender not more than Rs. 25 lakh.	3% plus/minus
For works with estimated cost put to tender more than Rs. 25 lakh.	2% plus/minus
(b) Bitumen All Works	2.5% plus & only & nil on minus side.
(c) Steel Reinforcement and structural steel sections for each diameter, section and category	2% plus/minus
(d) All other materials.	Nil

Recovery Rates for quantities beyond permissible variation

Material	Rates in Figures and Words at which recovery shall be made from the contractor	
	Excess beyond permissible variation	Less use beyond the permissible variation
Cement (PPC)	Nil	Rs.7,870/- per Ton
Steel Reinforcement bars (Fe-500D)	Nil	Rs.73,956/-per MT



APPROVED MAKES OF VARIOUS ITEMS (WHEREVER PRESCRIBED)
FOR USE UNDER THIS CONTRACT

SR. NO.	ITEMS	MAKE
1.	(i) Ordinary Portland/Portland Pozzolona Cement (Grey) (43 Grade)	ACC, L&T, Gujarat Ambuja, Vikram, Birla, JK Cement, JP Rewa, or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum.
	(ii) White Cement	Birla White/J.K. White
2.	Steel/Reinforcement Steel	Primary producer SAIL, TISCO & Rashtrya Ispat Nigam Ltd.
3.	Ready Mixed Cement Concrete	AMBUJA, ACC, ULTRA TECH, AFCON

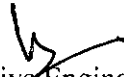
The Agency is required to get prior approval of Engineer-in-charge for the make of the material to be used in the work. In case of non-availability of material from these manufacturers, the Chief Engineer may allow use of alternative BIS approved manufacturer makes.



ABSTRACT OF COST

Name of Work: - **STRENGTHENING BASE OF UNDER GROUND
RCC CABLE TRENCH AT RGCTP HABITAT
PROJECT I.T.PARK, CHANDIGARH.**

Sr. No.	Description	Sub Head Total
1.	EARTH WORK	Rs.37,659.00
2.	CONCRETE WORK	Rs.2,80,962.00
3.	REINFORCEMENT CEMENT CONCRETE	Rs.29,34,672.00
4.	PILE WORK	Rs.36,26,304.00
	Total	Rs.67,79,597.00


Executive Engineer-IV,
Chandigarh Housing Board,
Chandigarh.



STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

SCHEDULE OF QUANTITIES FOR THE WORK DESIGN OF PILE FOR STRENGTHENING OF BASE OF RCC TRENCH(SERVICE DUCT) IN RGCTP, HABITAT PROJECT,IT PARK, CHANDIGARH.						
Sr. No.	Description of Item	Quantity		Unit	Rate	Amount (Rs.)
EARTH WORK						
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
	All kinds of soil	132.93	Cum	Cum	171.64	22816
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	16.88	Cum	Cum	207.32	3500
3	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked materials.					
	All kinds of soil	132.93	Cum	Cum	85.33	11343
CONCRETE WORK						
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	56.97	Cum	Cum	4931.75	280962
REINFORCEMENT CEMENT CONCRETE						
5	Centering and shuttering including strutting, propping etc. and removal of form for :					

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STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

	Lintels, beams, plinth beams, girders, bressumers and cantilevers	168.80	Sqm	Sqm	521.05	87953
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	30178.769	KG	KG	78.81	2378389
7	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum Excess/ less cement used as per design mix, is payable/recoverable separately). <i>to the entire satisfaction of Engineer-in-Charge.</i>					
	All works upto plinth level	59.08	Cum	Cum	7927.05	468330
	Pile Work					
8	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :					
	400 mm Pile dia <i>dia Piles</i>	1266.00	Mtr	Mtr	2785.39	3526304
	Total					6779597



Mile stone Programmer (Civil Component)
(In Physical Terms/Financial Terms)

S. No.	Description of Milestone (Physical)				Time allowed in Days (from date of start)	Amount to be with-held in case on non achievement of respective milestone.
1	1st Quarter					
	S. No	Description	During the quarter	Cumulative	19 Days	0.63% of Tendered Amount
	1.	Earth Work	35%	35%		
	2.	Concrete Work	25%	25%		
	3.	Reinforcement cement concrete	12%	12%		
	4.	Pile work	12%	12%		
	Or Gross work done i.e. 12.66% of tendered amount.					
2	2nd Quarter					
	S. No	Description	During the quarter	Cumulative	38 Days	1.26% of Tendered Amount
	1.	Earth Work	30%	65%		
	2.	Concrete Work	30%	55%		
	3.	Reinforcement cement concrete	25%	37%		
	4.	Pile work	25%	37%		
	Or Gross work done i.e. 37.89% of tendered amount.					
3	3rd Quarter					
	S. No	Description	During the quarter	Cumulative	57 Days	1.76% of Tendered Amount
	1.	Earth Work	35%	100%		
	2.	Concrete Work	40%	95%		
	3.	Reinforcement cement concrete	35%	72%		
	4.	Pile work	35%	72%		
	Or Gross work done i.e. 73.10% of tendered amount.					

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STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

4	4th Quarter					
S. No	Description	During the quarter	Cumulative	75 Days	1.34% of Tendered Amount	
1.	Earth Work	0%	100%			
2.	Concrete Work	5%	100%			
3.	Reinforcement cement concrete	28%	100%			
4.	Pile work	28%	100%			
Or Gross work done of 100% of tendered amount.						

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Part B

- I - GENERAL / SPECIFIC CONDITIONS,
SPECIFICATIONS**
- II - FINANCIAL BID FOR QUOTING RATES**



General/ Specific Conditions of work as applicable

1.0 GENERAL:-

- 1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried-out in accordance with the "CPWD Specifications (**Refer Para 2 (xiii) of Schedule A-F** at Page No. 44 and as per instructions of Engineer-in-Charge. Wherever CPWD Specifications are silent, the latest IS Codes/ Specifications shall be followed and the rates should be all inclusive.
- 1.2 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Contractor shall keep at his own cost all such publications including relevant Indian Standard applicable to the work at site.
- 1.3 The work shall be executed and measured as per metric dimensions given in the Schedule of Quantities, drawings etc. (FPS units wherever indicated are for guidelines only).
- 1.4 The work should be planned in a systematic manner ~~so that chase cuttings in the walls, ceilings and floors is minimized.~~ The contractor shall ensure proper co-ordination of various disciplines viz. ~~sanitary & water supply, horticulture & electrical etc.~~
- 1.5 ~~All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.~~
- 1.6 **~~Samples including brand/ quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.~~**
- 1.7 The contractor, his agents/ representative, workman etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.8 Contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy him-self about complete characteristics of soil and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
- 1.9 The tenderer shall see the approaches to the site. In case any approach from main road is required at site or, existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 1.10 Contractor shall take all precautionary measure to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.

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- 1.11 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. Contractor shall ensure that no hindrances shall be caused to traffic during the execution of the work.
- 1.12 **The contractor shall take instructions from the 'Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc are to be constructed.**
- 1.13 **The contractor shall provide at his own cost suitable weighing, surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.**
- 1.14 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations; given in the Architectural and plumbing drawings.
- 1.15 The work shall be carried out in accordance with the Architectural drawings and Structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work, nomenclature of items. Specifications etc. and satisfy himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account.
- 1.16 The Architectural drawings other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fittings involved unless and otherwise specifically mentioned.
- 1.17 **The contractor should submit the shop drawing of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.**
- 1.18 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required



for such related works (for which inserts, sleeves, brackets; conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

- 1.19 **The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.**
- 1.20 All material shall only be brought at site as per program finalized with the Engineer-in-Charge.
- 1.21 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.
- 1.22 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting/ shifting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
- In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract
- 1.23 The contractor shall be responsible for the watch and ward / guard of the, buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
- 1.24 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.



- 1.25 For construction works which are likely to generate malba / rubbish to the tune of more than a tempo / truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at his own cost to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.
- 1.26 The excavated surplus earth of the building shall be disposed off by the contractor for all leads and lifts free of cost within Campus. Dumping site/ premises shall be got approved from Engineer in Charge. The contractor will not be permitted to take the surplus earth outside the Campus.
- 1.27 The contractor shall take all necessary measures for the safe flow of traffic during construction including providing / maintaining such barricades all around construction area without hindering free flow of traffic as per directions of Engineer in Charge. Nothing extra shall be payable on account of providing and maintaining the barricading in good condition. The contractor shall be responsible for all damages and accidents caused due to negligence on his part.
- 1.28 ~~On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer in Charge. These drawings shall have the following information.~~
- a) ~~Run off of all piping and their diameters including soil, waste pipes and vertical stacks.~~
 - b) ~~Ground and invert level of all drainage pipes together with locations of all manholes and connections, up to out fall.~~
 - c) ~~Run off of all water supply lines with diameters, location of control valves, access panels etc.~~
- ~~In case the contractor fails to supply "as built drawing" aforesaid within 30 days of the date of completion, then the recovery @ RS.10,000/- each for such set of drawings shall be made from the contractor's final bill.~~
- 1.29 ~~Nothing extra shall be paid for making drip of any shape, size.~~
- 1.30 ~~Nothing extra shall be paid for making groove/cut of any kind in the item/items of plastering work.~~
- 1.31 In case of lowering of subsoil water level/wet earth work is required as per site condition, the same will be done by the contractual agency and the rate for the same will be allowed as per agreement.
- 1.32 ~~The contractor shall use the white cement with pigment to match the shade of flooring/ dado and for installation of P.H./ Electrical fixtures where ever required without claiming any thing extra.~~
- 1.33 ~~No hand grinding shall be permitted and grinding of stone/marble wherever required shall be only through mechanical grinders.~~



- 1.34 In case the depts supplies 'Recron fibers' for mixing in the mortar of Plaster of top storey and external Plaster, nothing extra shall be paid.
- 1.35 The rates for all items of work shall unless clearly specified, include the cost of labour, materials and other inputs involved in the execution of the items.
- 1.36 As per provision of contract labour (Regulation & abolition (Act) 1970, the agency shall obtain license for employing labour on the work before commencement of work and shall also display a copy of the same at the premises where the contract work is being carried out.
- 1.37 The contractors who are engaged in contract work in UT, Chandigarh are liable for registration under the provision of 'Goods & Services Tax Act 2017' as applicable in UT, Chandigarh. For non compliance they are liable to penal action under the above said Act.
- 1.38 Where the earth for filling is to be supplied by the Contractor /Agency, the rate to be quoted should include all leads and lifts whatsoever. The Contractor/Agency will arrange earth from its own source, in case the Board does not specify the source.
- 1.39 The contractor shall responsible for the implementation of all the provisions under **Rule 4 of Chandigarh Municipal Corporation (Sanitation and Public Health) Bye Laws, 1999** and bear all the fines, penalties and prosecutions in case of failures. CHB reserves the right to recover any damages/penalties imposed from the payments due to the contractor.
- 1.40 Justified amount (X) shall be worked out by the Board at the time of award of work while analyzing the bids received. The allotment amount (excluding escalation) (Y) shall be at a %age $O = (Y-X)/X$ above or below the said justified amount which will be called 'original %age above or below' as the case is.
- Revised justified amt (X'), on the same parameters as worked out at the time of award of work, shall be worked out at the time of every bill with the actual quantities. The actual amount of work (excluding escalation) (Y') at the time of every Bill shall be at a %age $A = (Y'-X')/X'$ above or below the said revised justified amount which will be called "actual %age above or below" as the case is.
- Suitable reduction will be made in the running/final bill, in case the "actual %age" (A) exceeds the "original %age" (O) so that the "actual % age remains at par or with in the "original %age".
- 1.41 In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/



sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.

In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of Earnest Money shall be forfeited.

If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, or CE of the zone EE(s) in-charge of major & minor component(s) (also DDH in case Horticulture work is also included in the tender), & the lowest contractors those have quoted equal amount of their tenders.

In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.

Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.

- 1.42 The competent authority on behalf of CHB reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- 1.43 The Board reserves its right to bifurcate the work between one or more agencies and further reserves its right to withdraw a part of a work of a particular item at any stage during the execution of work without prejudice to the right of the Board to recover, liquidated damages under various provisions of the contract agreement.
- 1.44 The quantities of various items and ~~the number of houses~~ can be increased or decreased at any stage unless and otherwise specified. No claim on account of such changes will be entertained. However the payment to the contractor under running/final bills shall be governed by actual quantities of the various items executed at site at the rate prescribed in the DNIT plus or minus quoted percentage by the agency.
- 1.45 The contractor shall be liable for and shall also indemnify the CHB and its employees against all liabilities, losses, claims, demands, proceeding, damages, costs, charges and expenses and further agrees to defend, indemnify and hold the Board and its employees harmless from any penalty whatsoever in respect of any injury or damage to any property of to personals during the execution of work or by the action of any central or state of local authority for violation by the contractor or sub-contractor engaged on the work.
- 1.46 The work during its progress and subsequently at any stage can also be inspected by the Chief Vigilance Officer/Chief Technical Examiner on



behalf of the Engineer-in-Charge and agency shall be responsible for compliance of the observation raised by Chief Vigilance Officer/Chief Technical Engineer and including any recoveries proposed thereof.

- 1.47 The work during its progress and subsequently at any stage shall be open for Inspection by Third Party/Quality Assurance Independent Agency appointed by CHB for Technical Examination/Audit on behalf of Engineer-In Charge and agency shall be responsible for compliance of the observation raised by it and including any compliance /recovery proposed thereof. In case of non compliance in 15 days further payment would be stopped.
- 1.48 **Supply of Water and Electric Power:** Unless otherwise provided elsewhere in the Contract, the Contractor shall be responsible for making arrangements at his own cost for obtaining supply of water and/or electrical power, necessary for the execution of the works and during defect liability period. If the agency arranges temporary water connection from MC, Chandigarh for construction purpose, the recovery of water charges shall be made as per Chandigarh Gazette notification issued on 28 September 2006. If the contractual agency arranges water through water tanker from MC, Chandigarh in case of non-availability of water supply lines at the site by the MC, then he will produce bill/payment receipt of water charges and such no water charges will be deducted provided the agency submit no objection certificate from the MC, Chandigarh in this regard. Further, it is clarified that if, receipts of water charges submitted are less than 1.5%, then the recovery of 1.5% will be made after adjusting the amount of receipt. If the contractual agency uses the water from the public stand post, through private tanker or any of the existing sources, panel rate recovery shall be made from the running bills/final bill. In the event the CHB is in a position to supply water or electrical power, or both, required for works, such supply shall be given only at one point. The cost of making necessary arrangements to the Engineer's distribution system and laying of necessary pipe line, specials, valves, meters etc. for water supply or the laying of underground/overhead conductor, circuit protection, electric power meters and transmission structures in case of electric power shall be borne by the Contractor. The Contractor shall also bear the running cost of water and power supplied, the rates for which shall be determined and notified by the Competent Authority. Presently the water charges @ 1.5% of the project cost which shall be deducted from bills of the agency instead of 1% as defined in Clause-31A (i) GCC. Any increase in water/power tariff by supplying agencies shall also be borne by the Contractor. The decision of CHB on such cost shall be final and binding. Before the release of security, the contractor will submit no due certificate from Electricity department.
- 1.49 The agency shall deposit EPF Contributions directly to RPFC on the stipulated dates and shall submit on regular basis proof of satisfactory compliance of the provisions of 'EPF & Miscellaneous Provisions Act, 1952'. The agency shall obtain inspection report for compliance from



inspector RPFC office for the period of the contract for this work and shall submit to CHB as a proof of EPF contribution after which the security shall be released.

- 1.50 **Unauthorized occupation:** It shall be the responsibility of the contractor to see that the building site under construction is not occupied by anybody unauthorized during construction, or afterwards till it is handed over to the Engineer-in-charge with vacant possession of complete building site. If such building site through completed is occupied illegally, then the Engineer-in-charge shall have the option to refuse to accept the said building/building site in that position. Any delay in acceptance on this account will be treated as the delay in completion of work and for such delay a levy up to ½ % of tendered value of work per week, may be imposed by the Chief Engineer, whose decision shall be final and binding both with regard to the justification and quantum and be binding on the contractor. This decision of Chief Engineer will not be open to any arbitration/ litigation. However, the Chief Engineer, through a notice, may require the contractor to remove the illegal occupation anytime on or before construction and delivery.
- 1.51 In addition to the conditions laid down in the 'General Condition of Contract Document of Chandigarh Housing Board' for release of security deposit, the contractor shall have to make compliance of the following:-
- (i) To submit clearance from the RPFC regarding making compliance of the provisions of the EPF Act or otherwise as specified in the 'Tender Document'
 - (ii) To produce no due certificate from Electricity department.
- 1.52 Deduction on account of Income Tax shall be made at the rate prescribed by law from the gross payment due to the contractor in accordance with section 194 C of Income Tax Act 1961, in force.
- 1.53 For the materials other than mentioned in the list of the approved makes in this Document, preference will be given to the ISI marked materials.
- 1.54 The items for which more than one Make/Brand has been specified in the list of 'Approved Makes' in the document and if during execution of the work, for some reason or the other, it is found that only one make remains available in the market, the Chief Engineer, CHB shall be competent to approve other makes of equivalent quality for such The items of work. His decision in this regard shall be final & binding on the part of the contractor.
- 1.55 The rates should be inclusive of cost of material, machinery, fuel, lubricant & labour complete and shall be firm and nothing extra shall be payable over and above.
- 1.56 Nothing extra shall be paid for any local carriage and re-handling of material irrespective of lead and lift.



- 1.57 The claims in bills regarding wages/ salary, Employees state Insurance, Provident Fund, EDLI etc. should be necessarily accompanied with documentary proof pertaining to the concerned month bill. A requisite portion of the bill/whole of the bill amount shall be held up till such proof is furnished, at the discretion of CHB.
- 1.58 The executing agency shall maintain all statutory registers under the applicable law. The executing agency shall produce the same, on demand, to the concerned authority of Chandigarh housing Board or any other authority under law.
- 1.59 In case, the executing agency fails to comply with any statutory/ taxation liability under appropriate law, and as a result thereof the Chandigarh Housing Board is put to any loss/obligation, monetary or otherwise, the Chandigarh Housing Board will be entitled to get itself reimbursed out of the outstanding bills or the Performance Security Deposit of the agency, to the extent of the loss or obligation in monetary terms.
- 1.60 All T&P required for the labour will have to be arranged by the agency.
- 1.61 Any material left at the site one month after completion of work shall be become the property of the department and no payment shall be made to the contractor for the material.
- 1.62 ~~All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.~~
- 1.63 No payment will be made to the contractor for damage caused by flood, rain, local disturbance, war, epidemic or either natural calamities during execution of work and no such claim on this account will be entertained.
- 1.64 The test certificate from Factory/Test Lab will be supplied by the agency along with each consignment of material for work. The department has every right to collect the sample from the site of manufacturing and same can be got tested from the reputed/Govt. Test Laboratories at any time.
- 1.65 The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors is minimized. The contractor shall ensure proper co-ordination of various disciplines viz. sanitary & water supply, horticulture & electrical etc.
- 1.66 The Contractor shall demonstrate trouble free functioning of all the Civil, Public Health, Electrical Works and services. The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various the Civil, Public Health, Electrical Works and services. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.
- 1.67 Refund of 80% PG or quantum as intimated from time to time, on substantial completion of work will be allowed. However, in case of contracts involving maintenance of building and services/ any other work



after construction of same building and services/ other work, then 50% of Performance Guarantee shall be returned to the contractor, without any interest after recording the Provisional Completion certificate.

2.0 UNLESS OTHERWISE SPECIFIED IN THE SCHEDULE OF QUANTITIES, THE RATES FOR RESPECTIVE ITEMS SHALL BE ALL INCLUSIVE AND APPLY TO THE FOLLOWING: -

- i. The rates quoted by the applicants in the Financial Bid should be inclusive of GST and all other taxes/levies and Cess as per Building & other construction Workers Welfare Cess ACT 1996 as extended to Chandigarh vide notification dated 17.09.2009. Nothing extra on this account shall be paid.

Further, the ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis.
- ii. All lifts & all heights, floors including terrace, leads and depths.
- iii. All labour, material, tools and plants and other inputs involved in the execution of the item.
- iv. Any of the conditions and specifications mentioned in the tender documents.
- v. Pumping /bailing out surface water/ rain water, if necessary for any reason.
- vi. Providing sunk flooring in Bath-rooms, kitchen, etc.
- vii. Any legal or financial implications resulting out of disposal of earth, if any.
- viii. Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
- ix. Performance test of the entire installation(s) before the work is finally accepted.
- x. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.
- xi. All incidental charges for cartage, storage and safe custody of materials brought to site.

3.0. TESTING OF MATERIAL:

- 3.1 Testing of Materials:** When required by the Engineer -in -Charge, the contractor shall supply, for the purpose of testing, samples of all materials proposed to be used in the works. Samples submitted either to govern bulk supplies or required for testing before use shall be provided free of charge by the contractor. All testing charges shall be borne by the contractor unless otherwise mentioned in the document. All mandatory test as per specification shall be carried out at laboratories as directed by Engineer- in-Charge.

All other expenditure required to be incurred for taking samples; Conveyance, packing etc. shall also be borne by the contractor himself.

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- 3.2 However, if any ultrasonic pulse velocity/ load testing or special testing is to be done for concrete whose strength is doubtful, the cost of the same shall be borne by the contractor.
- 3.3 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.

3.4 FIELD LABORATORY

The contractor has to establish field laboratory at site including all necessary equipments and skilled manpower for the Field Tests at his own cost to have proper quality control.

For performing the above tests, the Field Testing Equipments and Instruments are to be arranged and maintained by the contractor.

- 3.5 The contractor shall ensure quality construction in a planned and time bound manner. Any substandard material, work beyond set-out tolerance limit shall be summarily rejected by the Engineer-in-Charge & contractor shall be bound to replace/ remove such sub-standard /defective work immediately.

Laboratory/ Field equipment referred in the CPWD works Manual/MORTH is to be arranged and maintained by the contractor at the site of work. In case the equipment required for any test is not available at site, the department shall get the test conducted from the third party. However in that event, besides providing free materials of sample, the cost of taking of sample, packing, transportation, testing charges etc. shall be borne by the contractor irrespective of the results.

4.0 SECRECY

- 4.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.
- 4.2 The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.
- 4.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work/works or the earlier determination of the contract.

5.0 PROGRAM CHART: -

- 5.1 The Contractor shall submit a Time and Progress Chart for each mile stone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required modify, and communicate the program approved to the contractor



failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in-Charge. The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by contractor without causing any delay in execution of the work. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents.

- (i) In case of non submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.
 - (ii) The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.
 - (iii) The contractor shall submit the Time and Progress Chart and progress report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery as per Schedule F to be decided by the NIT approving authority shall be made on per week or part basis in case of delay in submission of the monthly progress report
- 5.2 The work has to be completed in stages as indicated in the Milestones under **Schedule 'F'** and the program should be prepared in such a manner to achieve these Milestones as indicated therein or earlier.
- 5.3 The program chart should include the following:
- a) Descriptive note explaining sequence of various activities.
 - b) Network (PERT / CPM / BAR CHART) which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
 - c) Program for procurement of materials by the contractor.
 - d) Program of procurement of machinery / equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
- 5.4 If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.

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- 5.5 The submission of revised program or approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.

Notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.

6.0 SAMPLE OF MATERIALS:-

- 6.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples for approval of Engineer-in-charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material/ fittings are not available, the contractor shall submit samples of materials/ a fitting manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.

- 6.2 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

- 6.3. BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.

BIS marked items (except cement & steel for which separate provisions have been made in the Tender Document) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-In-Charge. The frequency of such tests (except the mandatory test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications

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- 6.4 For certain items, if frequency of tests is neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

7.0 CEMENT & STEEL REINFORCEMENT (IF NOT STIPULATED TO BE SUPPLIED BY THE DEPARTMENT).

- 7.1 Contractor has to produce manufacturers test certificate for each lot of Cement & Steel Reinforcement procured at site.

7.2 CEMENT:-

- 7.2.1 The contractor shall procure 43 Grade (conforming to ISI 8112) Ordinary Portland Cement and/or Portland Pozzolana Cement (Fly Ash based), as required in the work from reputed manufacturers of cement having a production capacity not less than one million tones or more per annum, such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by the Ministry of Industries, Govt of India, and holding license to use ISI certificate mark for their product. The Tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.

The supply of cement shall be taken in 50 kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.

clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made.



- 7.2.6 The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-charge.
- 7.2.7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

7.3 STEEL REINFORCEMENT: -

- 7.3.1 The contractor shall procure TMT bars of Fe 500D grade from primary producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 Million tonnes per annum as approved by Ministry of Steel
- 7.3.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 7.3.3 Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time of written orders from the Engineer-in-charge to do so.
- 7.3.4 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge.
- 7.3.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting the checking.
- 7.3.6 For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

Size of bar	For consignment below 100 tonnes	For consignment above 100 tonnes
Under 10mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10mm to 16mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof.

- 7.3.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor/Department in the manner indicated below:

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- i) By the contractor, if the results show that the steel does not conform to relevant BIS Codes.
 - ii) By the department, if the results show that the steel conforms to relevant BIS Codes.
- 7.3.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of Steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the steel consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made.
- 7.3.9 The steel brought to the site and the steel remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-charge.
- 7.3.10 The contractor shall submit original vouchers from the manufacturer for the total quantity of steel supplied under each consignment to be incorporated in the work. All consignment received at the work site shall be inspected by the Site staff along with the relevant documents before acceptance. The contractor shall obtain Original Vouchers and Test Certificates and furnish the same to the Engineer-in-Charge in respect of all the lots of steel brought by him from approved supplier to the site of work. The original vouchers and test certificates shall be defaced by the site staff and kept on record in the site office.
- 7.3.11 Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.
- 7.3.12 In case the contractor bring surplus quantity of steel, the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
- 7.3.13 Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 7.3.14 The standard sectional weights referred to as in Table 4 in para 5.3.3 in CPWD Specifications will be considered for conversion of length of various sizes of M.S. Bars, Tor Steel Bars and T.M.T. bars into Standard Weight.
- 7.3.15 Records of actual Sectional weights shall also be kept dia-wise and lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight. However for the stipulated issue of steel reinforcement up to and including 10mm diameter bars, the actual weight of steel issued shall be modified to take into account the variation between the actual and the standard coefficients and the contractors' accounts will be debited by the cost of modified quantity.



7.3.16 a) If the Derived Weight as in sub-para (7.3.15) above is less than the Standard Weight as in Sub-para (7.3.14) above then the Derived Actual Weight shall be taken for payment.

b) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as per in sub-para (7.3.14) above shall be taken for payment. In such case nothing extra shall be paid for the difference between, the Derived Actual Weight and the Standard Weight.

8.0 SPECIAL CONDITION FOR CEMENT CONCRETE:

8.1 The contractor has to arrange at site sufficient centering /shuttering before start of work. Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor as approved by the Engineer-in-charge.

8.2 Nothing extra shall be paid for the centering & shuttering, circular in shape whenever the form work is having a mean radius exceeding 6m in plan.

8.3 In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C. shall be accordingly adjusted at the time of its centering, shuttering & casting for which nothing extra shall be paid to the Contractor.

8.4 As per general engineering practice, level of floors in toilet/bath, balconies, shall be kept 12 to 20mm as required lower than general floors. shuttering should be adjusted accordingly.

8.5 Drip course or moulding shall be provided in projected surfaces wherever specified.

The lean concrete, to be used in foundations base shall be mixed with mechanical mixtures.

9.0 PARTICULAR SPECIFICATIONS FOR RCC WORK: -

1.1 The Conditions & Specifications stated herein shall have precedence over all conditions & specifications stated in relevant I.S. Codes/ C.P.W.D. Specifications. The concrete mix shall be designed for the specified target mean compressive strength in order to ensure that work test result do not fall below the acceptance criteria specified for the concrete mix. The Contractor shall design mixes for each class of concrete indicating that the concrete ingredients and proportions will result in concrete mix meeting the requirements specified.

(a) The contractor has to submit design mix with the use of admixtures.

(b) Admixture to be added (by maintaining the minimum cement content & maximum W/C ratio) to meet the Workability / slump & requirement. Quoted rate will include the cost of admixtures used in the concreting work. Nothing extra shall be paid to the contractor on account of addition of admixtures.

1.2 The source of coarse aggregate, fine aggregate, water, admixture & cement to be used in concrete work shall be identified by the contractor & he will satisfy himself regarding their confirming to the relevant specifications and their availability before getting the approved from the Engineer-in-Charge.

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STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

- a) Coarse Aggregate As per CPWD Specifications
- b) Fine Aggregate As per CPWD Specifications
- c) Water It shall conform to requirements laid down in IS: 456-2000 (Para 5.4) or CPWD Specifications.
- d) Cement The contractor shall use 43 Grade Ordinary Portland Cement and/or Portland Pozzolona Cement of brand/make/source as specified in Tender Document for production of concrete. However, if the contractor uses higher grade of cement nothing extra shall be paid.
- e) Admixture/ Plasticizer The admixture shall conform to IS: 9103 Whenever required, the admixture of approved quality & approved make only shall be used to attain the required workability. Nothing extra on account of use of Admixture/Plasticizer shall be payable.

1.3 Grade of Concrete: - The compressive strength of various grades of concrete with various parameters shall be as follows: -

Grade Designation	Compressive Strength on 15 cm Cubes Min. 7 Days (N/Mm ²)	Specified Characteristics Compressive Strength at 28 Days (N/Mm ²)	Minimum Cement Content (Kg. Per Cum)	Maximum Water Cement Ratio	Slump
(i) M-25	As per design	25	300	0.50	25-75
(ii) M-30	As per design	30	320	0.45	25-75

NOTE:-

- i) In the designation of a Concrete mix letter M refers to the mix and the number of the specified characteristic compressive strength of 15 cm - Cube at 28 days expressed in N/mm².
- ii) It is specifically highlighted that in addition to the above requirements, the maximum cement content for any grade shall be limited to 530 kg./cubic metre.
- iii) In case, Excess/less cement used than specified in this item is payable/recoverable separately @ Rs.7,870/- per Ton.

9.4 The Contractor shall engage one of the following approved laboratories/ test house for designing the concrete mix in accordance with relevant IS Code and to conduct laboratory tests to ensure the target strength & workability criteria for a given grade of concrete: -

- i) Punjab Engineering College, Chandigarh.
- ii) NIT, Jalandhar. (Formerly known as REC, Jalandhar.)
- iii) IIT, New Delhi.
- iv) Chandigarh Engineering College, Sector 26, Chandigarh.
- v) National Institute of Technical Teacher Training and Reserch, Sector 26, Chandigarh.



The various ingredients for mix design/laboratory tests shall be sent to the lab / test houses through the Engineer-in-charge and the samples of such aggregates shall be preserved at site by the department.

In the event if all the five laboratories are unable to carry out the requisite design/ testing, the contractor may have it done any other laboratory with prior approval of the Chief Engineer.

- 9.5 The contractor shall submit the report on design 'mix from any of above approved laboratories for approval of Engineer in Charge within 30 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the design mix is approved. In case of White Portland Cement and the likely use of admixtures in concrete with ordinary Portland/White Portland Cement, the contractor shall design and test the concrete mix by using trial mixes with white cement and/ or admixtures also, for which nothing extra shall be payable.
- 9.6 In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, the contractor as per the directions of the Engineer-in-charge shall submit a revised laboratory mix design report conducted at laboratory established at site.
- 9.7 All cost of mix designing and testing, connected therewith, including charges payable to the laboratory shall be borne by the Contractor including redesigning of the concrete mix whenever required & as directed by Engineer-in-Charge.
- 9.8 The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65s$

Where F_{ck} = Compressive strength at 28 days.

S= Standard deviation which depends on degree of quality control.

The standard deviation for different grades of concrete shall be as follows:

GRADE OF CONCRETE	STANDARD DEVIATION
M-25	4
M-30	5

9.9 TRIAL BATCHES

- (a) The designed mix proportions shall be checked for target mean compressive strength by means of trial batches.
- (b) Minimum three sets of separate preliminary tests shall be carried out for each trial batch of concrete mix. Each test shall comprise of six specimens and only one test-set of six specimens shall be made on any particular day.
- (c) The quantities of materials for each trial mix shall be sufficient for at least six specimens (cubes) and the concrete required for carrying out workability tests.
- (d) The workability of trial mix No.1 shall be measured and mix be carefully observed for freedom from segregation, bleeding and its finishing characteristics. The water content, if required, shall be adjusted corresponding to the required changes in the workability.
- (e) With the modified Water Content, the mix proportions shall be recalculated by keeping Mix water cement ratio unchanged. The mix proportion, as modified, shall form the trial mix No. 2 and tested for the specified strength and workability.



- (f) In addition, trial mix No.3 and 4 shall be designed by keeping water contents same as determined as per trial mix No. 2 but varying the water cement ratio by + 10% of the specified value and tested for their designed characteristics.
- (g) Out of the six specimen of each set, three shall be tested at 7 Days & remaining three at 28 Days. The preliminary tests at 7 Days are intended only to indicate the strength to be attained at 28 Days, while the design mix shall be approved only on the basis of test strength at 28 Days.

9.10 READY-MIXED CONCRETE AND PUMPING CONCRETE

- (a) Ready-mixed concrete may be manufactured in a central automatic weight Batching plant and transported to the job in agitating transit mixer. The maximum size of coarse aggregate shall be limited to one-third of the smallest inside diameter of the hose or pipes used for pumping. Provision shall be made for elimination of over-sized particles by screening or by careful selection of aggregates.
- (b) To obtain proper gradation it may be necessary to combine and blend certain fractional sizes to aggregates. Uniformity of gradation throughout the entire job shall be maintained. The quantity of coarse aggregate shall be such that the concrete can be pumped, compacted and finished without difficulty

9.11 Fine aggregates:

- (a) The gradation of fine aggregate shall be such that 15 to 30 percent should pass the 0.30 mm screen and 5 to 10 percent should pass 0.15mm screen so as to obtain a pumpable concrete. Sands that are deficient in either of these two sizes should be blended with selected finer sands to produce these desired percentages. With this gradation, sands having a fineness modulus between 2.4 and 2.8 are generally satisfactory. However, for uniformity, the fineness modulus of the sand should not vary more than 0.2 from the average value used in proportioning.

9.12 Water, Admixtures and slump:

- (a) The amount of water required for proper concrete consistency shall take into account the rate of mixing, length of haul, time of unloading and ambient temperature conditions. Additions of water to compensate for slump loss should not be resorted to nor should the design maximum water-cement ratio be exceeded.
- (b) Additional dose of retarder/plasticizer/superplasticizer shall be used with prior approval of Engineer to compensate the loss of setting time and slump at contractor's cost. Retempering water shall not be allowed to be added to mixed batches to obtain desired slump.

9.13 Transportation:

- (a) The method of transportation used should efficiently deliver the concrete to the point of placement without significantly altering its desired properties with regard to water-cement ratio, slump, and homogeneity.
- (b) The revolving-drum truck bodies of approved make shall be used for transporting the concrete. The numbers of revolutions at mixing speed, during transportation, and prior to discharge shall be specified and agreed upon. Reliable counters shall be used on revolving-drum truck units.

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Standard mixer uniformity tests, conforming to "Standard Specifications for Ready Mix Concrete", shall be carried out if desired by Engineer to determine whether mixing is being accomplished satisfactorily.

9.14 Pumping of concrete:

- (a) Only approved pumping equipment, in good working condition, shall be used for pumping of concrete. Concrete shall be pumped through a combination of rigid pipe and heavy-duty flexible hose of approved size and make. The couplings used to connect both rigid and flexible pipe sections shall be adequate in strength to withstand handling loads during erection of pipe system, misalignment, and poor support along the lines. They should be nominally rated for at least 3.5 Mpa pressure and greater for rising runs over 30 m. Couplings should be designed to allow replacement of any section without moving other pipe sections, and should provide full cross section with no construction or crevices to disrupt and smooth flow of concrete.
- (b) All necessary accessories such as curved sections of rigid pipe, swivel joints and rotary distributors, pin and gate valves to prevent backflow in the pipe line, switch valves to direct the flow into another pipe line, connection devices to fill forms from the bottom up, extra strong couplings for vertical runs, transitions for connecting different sizes of pipe, air vent for downhill pumping, clean-out equipment etc. shall be provided as and where required. Suitable power controlled booms or specialized crane shall be used for supporting the pipe line.

9.15 Field control:

- (a) Sampling at both truck discharge and point of final placement shall be employed to determine if any changes in the slump and other significant mix characteristics occur. However, for determining strength of concrete, cubes shall be taken from the placement end of line.

9.16 Planning:

- (a) Proper planning of concrete supply, pump locations, line layout, placing sequence and the entire pumping operation shall be made. The concrete production, transportation and placing shall be planned in such a manner that duration between addition of water during mixing and placing of concrete in desired location is well within time limits prescribed by the RMC manufacturer, however, this is subjected to fulfillment of slump and other properties of concrete as specified in tender. On failure to adhere to the time schedule by the supplier the Engineer may reject the concrete.
- (b) The pump wherever used should be as near the placing area as practicable, and the entire surrounding area shall have adequate bearing strength to support concrete delivery pipes. Lines from pump to the placing area should be laid out with a minimum of bends. For large placing areas alternate lines should be installed for rapid connection when required. Standby power and pumping equipment should be provided to replace initial equipment, should breakdown occur.
- (c) The placing rate should be estimated so that concrete can be ordered at an appropriate delivery rate.



- (d) As a final check, the pump should be started and operated without concrete to be certain that all moving parts are operating properly. A grout mortar should be pumped in to the lines to provide lubrication for the concrete, but this mortar shall not be used in the placement.
- (e) When the form is nearly full and there is enough concrete in the line to complete the placement, the pump shall be stopped and a go-devil inserted and shall be forced through the line by water under pressure to clean it out. The go-devil should be stopped at a safe distance from the end of the line so that the water in the line will not spill into the placement area. At the end of placing operation, the line shall be cleaned in the reverse direction.

9.17 SUBMISSION OF DOCUMENTS FROM RMC MANUFACTURER:

Following document shall be submitted by the RMC manufacturer to CHB through the contractor along with checklist for RMC specified in the tender document.

1. Design Mix
2. Manufacturer's Test Certificate for cement and plasticizer
3. Lab test certificates for all ingredient of concrete
4. Delivery docket sheet mentioning the grade of concrete, quality of ingredient used, slump, transit mixer vehicle no. placement, location, time of concrete production and placing etc.

9.18 APPROVAL OF DESIGN MIX

The design mix shall be considered satisfactory and approved if at least three preliminary test-sets individually satisfy the following strength and workability criteria:

- (a) The average strength of each test-set is not less than the specified target mean compressive strength (T_{ck}).
- (b) The strength of any specimen cube is not less than $0.85 T_{ck}$.
- (c) The concrete mix is of required degree of workability and acceptable concrete finish.

9.19 OTHER OPERATIONS: - carried out shall be submitted by the contractor as per Performa.

All other operations in concreting work like mixing, slump, laying, placing of concrete, compaction, curing etc, not mentioned in this particular specification for Ready Mix Concrete shall be as per CPWD Specifications.

9.20 SAMPLING:-

- a) Samples from fresh concrete shall be taken as per IS 1199-1959 and the test cubes shall be made, cured and tested in accordance with IS: 516-1959
- b) Each test sample shall comprise of six test cubes (specimen), three of which shall be tested at 7 days and remaining for tests at 28 days.



c) FREQUENCY OF SAMPLING: -

- (i) A random sampling procedure shall be adopted to ensure that the sampling is spread-over the entire period of concreting and cover all mixing units. The concrete work shall be notionally divided into lots as under for the purpose of sampling conditions.
- Footings, rafts etc
 - Columns and walls at all levels
 - Beams at all levels
 - Slabs at all levels
- (ii) At least one test sample shall be taken for each lot of concrete work.
- (iii) Each grade of concrete shall form different lot for testing.
- (iv) The minimum frequency of sampling of concrete of each grade shall be in accordance with the following: -

QUANTITY OF CONCRETE IN THE WORK, CUBIC METRE PER DAY.	NUMBER OF SAMPLES
1-5	1
6-15	2
16-30	3
31-50	4
51 & Above	4 Plus one additional sample for each additional 50 Cum or part thereof.

NOTE: - At least one sample shall be taken from each shift.

- (i) The concrete work shall be assessed on day to day basis & samples shall be taken as specified.
- (ii) Work strength test shall be conducted in accordance with IS: 516 on random sampling.

9.21 TEST RESULTS OF SAMPLES:

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than + 15% percent of the average. If variation is more, the test results shall be treated as invalid. Around 90% of the total tests shall be done at the laboratory established at site by the contractor and remaining 10% in any other laboratory {as directed by the Engineer-in-Charge}.

9.22 STANDARD OF ACCEPTANCE:-

- i) In case the test results of all the samples are above the characteristic compressive strength, the concrete shall be accepted.



- ii) In case the test result of one or more samples fails to meet the requirement (i) above, it shall be accepted if it meets the requirement as laid down in CPWD Specification.
- iii) Concrete of each grade shall be assessed separately.
- iv) Concrete is liable to be rejected, if it is porous or honeycombed or its placing has been interrupted without providing a proper construction joint or the reinforcement has been displaced beyond the tolerances specified, or construction tolerances have not been met.

9.23 MEASUREMENT -

- (i) As per CPWD Specifications.
- (ii) In respect of all projected slabs at all levels including cantilever, canopy, the payment for the RCC work shall be made under the item RCC slabs. The payment for shuttering at the edges shall be **made under item of centering and shuttering for RCC slabs. Nothing** extra shall be paid for the side shuttering at the edge of these projected balconies/ projected verandah slabs.

9.24 TOLERANCES – As per CPWD Specifications.

9.25 RATES:-

- (i) The rate includes the cost of materials, labour and T&P, including mixing, placing, transportation involved in all the operations described above except for the cost of centering, shuttering & reinforcement which will be paid for separately.
- (ii) In case of rejection of concrete on account of unacceptable compressive strength, governed by para "Standard of Acceptance" as above, the work for which samples have failed shall be redone at the cost of contractor. However, the Engineer-in-charge may order for additional tests (like cutting cores, ultrasonic pulse velocity test, load test on structure or part of structure, etc) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The Contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days. cube test results and reduced rates shall be regulated in accordance with CPWD Specifications.

10. DEFECT / WATCH & WARD LIABILITY:

- 10.1 The contractor's liability during the defect liability period from the final date of completion as per clause 17 shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-Charge are not man made. The agency shall be responsible for watch and ward of completed work for the period upto the 'Defect liability Period' or till the physical possession is handed over to the other agency whichever is earlier. Nothing extra shall be payable on this account.



S. No.	Description	Defect Liability of the items, if executed under this contract.
(i)	Concrete	a) Rectification of structural/ superficial/ non-structural cracks. (b) Rectification of dampness/ seepage in base slab/ junctions & sunken portion. (c) Rectification of Slopes, uneven joints by relaying.
(ii)	Steel & Iron work	(a) Redoing of defective portion in fabrication welding etc.,
(iii)	General	(a) All manufacturing defects of structures/ fixtures/ fittings other than listed above.

11. FOR COMPLIANCE UNDER ENVIRONMENT PROTECTION ACT 1986

- 11.4 Resident labour shall be provided with proper hygienic and ventilated accommodation.
- 11.5 The contractor shall provide adequate drinking water and sanitary facilities to the workers employed during the construction period. The contractor is responsible for making arrangements for the safe disposal of wastewater and solid wastes generated during the construction.
- 11.6 All the top soil excavated during construction activities should be stored as directed by the engineer in charge for further use in horticulture /landscape development work within the project site.
- 11.7 The contractor is responsible for making arrangements for the safe disposal of muck including excavated material during construction. It shall not create any adverse effects on the neighboring communities and disposed off taking the necessary precautions for general safety and health aspects, to the approved sites with the approval of competent authority.
- 11.8 Use of diesel generator sets during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) rules prescribed for air and noise emission standards. The contractor shall submit the requisite permission from the CPCC for setting up the same.
- 11.9 Vehicles hired for bringing construction material at site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non peaking hours. The engineer in charge has the right to ban entry of such vehicle/ vehicles which, in the opinion of the Engineer in-charge is/are causing pollution to the environment. The decision of the EIC shall be final and binding to the contractor.
- 11.10 The agency shall ensure that the ambient noise levels should conform to residential standards both during day and night. The contractor shall submit the monitoring report of actual noise levels at site once in a quarter to the EIC. The monitoring shall be got executed from the Laboratory / consultant approved by MOEF.
- 11.11 The contractor is responsible for taking steps to avoid contamination of watercourses and ground water by such material like construction spoils



- including bituminous material and other hazardous materials. He shall be responsible to make secure dumps of such materials so that they should not leach into the ground water.
- 11.12 The contractor shall make provisions for the supply of kerosene or cooking gas / pressure cooker to meet with the cooking needs of the during construction phase. Burning of wood shall not be allowed under any circumstances.
- 11.13 The Environmental committee of the CHB or the members of the monitoring officials of the MOEF can inspect the labour camps as well as the construction site at any time. The contractor is responsible to bear the penalties or fines if any imposed for the violation of the provisions of the Environment Protection Act 1986. The decision of the EIC will be the final and binding over the contractor.
- 11.14 The contractor shall ensure that the constructional activities shall not cause dust pollution. He shall make arrangements for water sprinkling with in the 1 km radii of the project site to subsidize the dust.
- 11.15 A First Aid Room will be provided by the agency during construction.
- 11.16 All labour to be engaged for construction shall be screened for health and adequately treated before engaging them to work at the site.
- 11.17 For disinfection of waste water, the contractor will use ultra violet radiation and not chlorination.
- 11.18 The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
- 11.19 Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 11.20 Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/CPCC.
- 11.21 Water demand during construction should be reduced by use of best industry practices.
- 11.22 Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- 11.23 The contrutural agency shall used fly ash based material products as per provisions of Fly ash notification of 14/09/1999 & amended on 27/08/2003 & its ammendmants if any.

Note: - The conditions of environment have been taken as per already executed project adjoining to site. However the case for taking environment clearance is under process. If GOI imposed any additional condition, then the same will be applicable on this project.



Annexure 'A'

(To be executed On Judicial Stamp paper worth Rs.100/- between Contractor, Manufacturer & Engineer-in-charge of the work)

GUARANTEE BOND

This agreement made this _____ day of _____ between M/s. _____ & M/s _____ (hereinafter called the Guarantors which expression shall include where the context so admits the representative successors or his/its assignees of the one part) and the Engineer-in-charge on behalf of Chandigarh Housing Board, Chandigarh constituted under Section -III of the Haryana Housing Board Act, 1971 as extended to the Union Territory, Chandigarh having its principal office at 8 Jan Marg, Sector 9-D, Chandigarh (hereinafter called the Board which expression shall unless repugnant to the context or meaning thereof including its successor and assignees of the other part).

Whereas this agreement is supplementary to the contract (hereinafter called the Sub Contract) dated _____ made between the Guarantors of the one part and Board of the other part, whereby the contractor & manufacturer, inter alia, undertook to render the buildings and structures of Fire Fighting System conforming to the prescribed specifications. Wherein, the materials in question have been **used in "Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T..Park, Chandigarh".**

" (Location) during the period between _____ to _____ at the site of work.

And whereas the Guarantors agreed to give a guarantee to the effect that the said material will remain defect free for the next two years to be reckoned from the date of completion of the work under the contract Agreement No. _____ dated _____.

During this period of guarantee, the Guarantors shall make good all manufacturing defects and for that matter, shall replace at his risk and cost such defective material(s) as observed to the satisfaction of the Engineer-in-charge, and shall commence the works of such rectification within seven days from date of issuing notice from the Engineer-in-charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other Contractor/ manufacturer at the Guarantor's cost and risk, and in the later case the decision of the Engineer-in-charge as to the cost recoverable from the Guarantors shall be final and binding.

That if the Guarantors fails to replace the defective material(s) or commits breaches hereunder then the Guarantors will indemnify principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the Guarantor in performance and observance of this supplemental agreement. As to the amount of loss and/or damage and/or cost incurred by the Board, the decision of the Engineer-in-charge will be final and binding on the parties. In case of failure to replace the defective material, in addition to the recovery, stated here, the Guarantors and the Contractor shall be black listed.



STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT
RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (Bid Document)

In witness whereof these presents have been executed by the Obligor
_____ and by _____ for and on behalf of the Chairman, CHB on the day,
month and year first above written.

Signed, sealed and delivered by OBLIGOR in the presence of

- 1.
2. (Contractor)
- 2.. (Manufacturer)

Signed for and on behalf of the Chairman, CHB by EE-IV in the presence of.

- 1.
- 2.

Note:- This Guarantee Bond shall be signed by the manufacturers individually, if the
manufacturer of _____ are different agencies.



FORMAT OF INDEMNITY BOND.

(To be furnished in Stamp paper as per Stamp Act)
(At presents not less than Rs.80/-Stamp paper)

This deed of indemnity executed by hereinafter referred to as Indemnifier which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, representative and assignees in favour of Chandigarh Housing Board, hereinafter to as the indemnified which expression shall unless repugnant to the context of meaning thereof, include its successors and assignees witness us to.

Whereas the indemnified herein has awarded to the Indemnifier therein a contract for the '**Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh**' on terms and conditions set out interalia in contract/Award No. _____ valued at Rs. _____ only)

And whereas the above mentioned contract provides for '**Strengthening base of under ground RCC cable trench at RGCTP Habitat Project I.T.Park, Chandigarh**'. as per terms & conditions of the contract.

The indemnifier hereby irrevocably agrees to indemnify the indemnified that he shall be liable for and shall also indemnify the CHB and its employees against all liabilities, losses, claims, demands, proceeding, damages, costs, charges and expenses and further agrees to defend, indemnify and hold the Board and its employees harmless from any penalty whatsoever in respect of any injury or damage to any property of to personals during the execution of work or by the action of any central or state of local authority for violation by the contractor or sub-contractor engaged on the work in respect of his contractual obligations emanated from the contract already referred to the extent of Rs. _____/- Rupees _____ only)

This indemnity shall be in force up to the date of the item from our end.

Name
Designation

WITNESS:

1.

2.



**FINANCIAL BID FOR THE WORK STRENGTHENING BASE OF UNDER
GROUND RCC CABLE TRENCH AT RGCTP HABITAT PROJECT I.T.PARK,
CHANDIGARH**

Part	Description	Amount
I	STRENGTHENING BASE OF UNDER GROUND RCC CABLE TRENCH AT RGCTP HABITAT PROJECT I.T.PARK, CHANDIGARH (DNIT Amount)	Rs. 67,79,597/-
<p>I/we will charge % (in figures) i.e (a)* percent (in words) (b)* (write above or below) on the total Composite cost of Rs. 67,79,597/- (Rs Sixty Seven Lakh Seventy Nine Thousand Five Hundred Ninety Seven only). The overall amount of the Tender comes out to be Rs. (in figures) (Rs. (c)* (in words) with my quoted Rates.</p>		
* Note:		
1.	For filling up the portion marked (a)* above the agency is to quote the percentage in figure and words. Percentage is to be quoted up to three digits after decimal.	
2.	For filling up the portion marked (b)* above, the agency is to quote either above or below .	
3.	For filling up the portion marked (c)* above the agency is to quote the amount in figures and words.	
4.	In case of any ambiguity or difference between the quoted percentage and amount, the amount worked out at '(c)' above will be considered as correct and the percentage will be considered accordingly.	
	Dated	Signature of the Bidder (s)

[Signature]
Superintending Engineer-II
Chandigarh Housing Board
Chandigarh

[Signature]
Executive Engineer-IV,
Chandigarh Housing Board,
Chandigarh.

This NIT containing ~~84~~ pages as per Index amounting Rs. 67,79,597/- (Rs Sixty Seven Lakh Seventy Nine Thousand Five Hundred Ninety Seven only) is hereby approved.

[Signature]
Chief Engineer
Chandigarh Housing Board
Chandigarh

[Handwritten]
06/10/21 20
6/10/21