



ब्रह्मपुत्र क्रेकर और पालीमेर लिमिटेड Brahmaputra Cracker and Polymer Limited

(भारत सरकार का उपक्रम) / (A Government of India Enterprise)
प्रशासनिक भवन, पो.ओ. लेपेटकटा / ADMINISTRATIVE BUILDING, PO: LEPETKATA
जिला: डिब्रूगढ़, असम / DISTT.: DIBRUGARH, ASSAM
पिन कोड – 786006 / PIN CODE: 786006
दूरभाष: 0373 2914636 / PHONE NO. 0373 2914636

**e -TENDER NO:
BCPL/C&P/LE18W0184ND/90000924**

(Tender to be submitted in e-mode only)

निविदा दस्तावेज़ / TENDER DOCUMENT FOR

**DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL
QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH**

निविदा जमा करने की तिथि व समय Tender Submission Date & Time	:	17.01.2019 at 14:30 Hrs
निविदा खोलने की तिथि व समय Tender Opening Date & Time	:	18.01.2019 at 15:00 Hrs
निविदा शुल्क/Tender Fee	:	Not Applicable
ईएमडी मूल्य / EMD Amount	:	NIL



महत्वपूर्ण निर्देश / IMPORTANT INSTRUCTIONS

PLEASE NOTE THAT THIS "REQUEST FOR QUOTATION [RFQ]" IS ON "ZERO-DEVIATION" BASIS. BCPL WILL ACCEPT OFFERS BASED ON TERMS AND CONDITIONS OF THIS "REQUEST FOR QUOTATION [RFQ] & TENDER DOCUMENT" ONLY. DEVIATION TO TERMS AND CONDITIONS OF "REQUEST FOR QUOTATION [RFQ] & TENDER DOCUMENT" MAY LEAD TO REJECTION OF OFFER.

"INCOMPLETE BIDS SHALL NOT BE CONSIDERED"

PRIOR TO DETAILED EVALUATION, PURSUANT TO "BID EVALUATION AND REJECTION CRITERIA", BCPL WILL DETERMINE THE SUBSTANTIAL RESPONSIVENESS OF EACH BID TO THE "RFQ & TENDER DOCUMENT". FOR THE PURPOSE OF THIS, A SUBSTANTIALLY RESPONSIVE BID IS ONE WHICH CONFORMS TO ALL THE TERMS AND CONDITIONS OF THE BIDDING DOCUMENTS WITHOUT 'DEVIATIONS' OR 'RESERVATIONS / EXCEPTIONS'. BCPL'S DETERMINATION OF A BID'S RESPONSIVENESS IS BASED ON THE CONTENT OF THE BID ITSELF, WITHOUT RECOURSE TO EXTRINSIC EVIDENCE.

'TECHNICAL' AND/OR 'COMMERCIAL' QUERY(S), IF REQUIRED, MAY BE RAISED ON THE BIDDER(S) – THE DECISION FOR WHICH WILL BE SOLELY BASED ON CIRCUMSPECTION BY 'BRAHMAPUTRA CRACKER AND POLYMER LIMITED'. HOWEVER, ISSUANCE OF REQUEST FOR SUCH 'CLARIFICATIONS' SHALL NOT BE RESORTED TO MORE THAN 'ONCE'. THE 'RESPONSE(S)' TO THE SAME SHALL BE IN WRITING AND NO CHANGE IN THE 'PRICE(S)' OR 'SUBSTANCE' OF THE BIDS SHALL BE SOUGHT, OFFERED OR PERMITTED. THE SUBSTANCE OF THE BID INCLUDES BUT NOT LIMITED TO PRICES, COMPLETION, SCOPE, TECHNICAL SPECIFICATIONS, ETC.

BIDDERS ARE REQUESTED TO NOT TO TAKE ANY 'DEVIATION/EXCEPTION' TO THE TERMS AND CONDITIONS LAID DOWN IN THIS "RFQ & TENDER DOCUMENT", AND SUBMIT ALL REQUISITE DOCUMENTS AS MENTIONED IN THIS "RFQ & TENDER DOCUMENT", FAILING WHICH YOUR OFFER WILL BE LIABLE FOR REJECTION.



**निविदा संख्या /TENDER NO: BCPL/C&P/LE18W0184ND/90000924 FOR DESIGN,
ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS
AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH**

**अक्सर पूछे जाने वाले प्रश्न / FREQUENTLY ASKED QUESTIONS
[QUESTIONS AND ANSWERS]**

SN.	QUESTIONS	ANSWER
1	Where the bidder can see the Tender floated by BCPL?	Yes, please visit GAIL's/BCPL's website: http://www.gailtenders.in ; http://www.bcplonline.co.in and Government portal https://www.eprocure.gov.in for complete details of tender document including qualifying requirements, important dates, etc.
2	Whether Hard copy of Bids are acceptable?	No, Bids shall be submitted only through e-tender mode in the E-TENDER PORTAL in the manner specified elsewhere in tender document. No Manual/ Hard Copy (Original) of offer/bid is acceptable.
3	In case of Domestic e-Tender, whether there is sale of Tender Document?	Sale of tender document is not applicable. However, Tender fee shall be applicable in case of open tender.
4	Whether EMD are prerequisite for qualification of bidder in any tender?	Yes, as applicable as per tender condition specified in ITB of tender document.
5	Is there any guideline / instructions how to prepare EMD and Security Deposit?	Yes, Please refer instructions for participation in E-Tender & ITB Section of Tender Document.
6	In case of e-tender, whether EMD in original are to be forwarded to concerned department of BCPL after uploading a copy of same in e-tender portal by the bidder?	Yes, original EMD, copy of which has been uploaded, are to be forwarded and must be received in BCPL within 7 days from the date of unpriced bid opening, failing which the bid will be rejected irrespective of their status in tender and not-with-standing the fact that a copy of EMD was earlier uploaded by the bidder.
7	If in e-tendering, a bidder has not uploaded the scanned copy of EMD, however, he has submitted the EMD in hard copy within 7days of bid opening, whether bid will be accepted or not ?	No
8	Is there any exemption in submission of EMD and Security Deposit?	(i) Yes, there is exemption in submission of EMD. As per Government of India, Gazette No. 503 dated 04.07.2012 for PPP (Public Procurement Policy), Micro and Small Enterprises (MSEs) registered with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of MSME (Micro, Small and Medium Enterprises) are exempted on submission of EMD only for procurement of goods & services against submission of Valid NSIC Certificate/DIC The above documents submitted by the bidder shall be duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) and Notary Public with Legible stamp. MSEs those having Udyog Aadhaar Memorandum are also eligible for availing the benefits under the Public Procurement Policy". (ii) There is no exemption in submission of SD (Security Deposit).



SN.	QUESTIONS	ANSWER
9	Whether PSU (Public Sector Undertaking) are exempted from submission of EMD	Yes
10	Whether Late bid can be considered?	No
11	Whether Pre-bid Meeting (PBC) is a part of all tenders to clarify the doubts, queries, comments, etc. (if any) pertaining to that tender?	Yes, after floating of tender, bidders are open to participate as per the Date, Time and Venue specified in Section-I, IFB of Tender Document to clarify their doubts, queries, comments, etc (if any) pertaining to that particular tender.
12	Is BEC (Bid Evaluation Criteria / Bidder's Eligibility Criteria) a part of any tender and a prerequisite of qualification of bidder in any tender?	Yes, Bid Evaluation Criteria/Bidder's Eligibility Criteria is a part of tender and a prerequisite of qualification of bidder in any tender.
13	In which mode of bidding/tendering, BEC (Bid Evaluation Criteria / Bidder's Eligibility Criteria) a part of tender and a prerequisite of qualification of bidder in any tender?	BEC is included in tenders floated on Open Tender/Limited Tender basis.
14	Is there any Criteria for formulation of BEC (Bid Evaluation Criteria / Bidder's Eligibility Criteria) which is incorporated in Tender?	Yes, suitable BEC-technical is formulated which is usually incorporated in tender to ascertain the experience & BEC-Financial is also incorporated in tender to ascertain the financial capability of bidder which is a qualifying criteria of tender depending upon the job requirement.
15	Whether BEC can be relaxed for any bidder after opening of Bids?	No relaxation is permitted for inclusion of any bidder (s) who do not meet the criteria in entirety for reason only to increase the competition.
16	Whether BEC can be modified after opening of Bids?	Amendment/ modification/ relaxation of BEC is not permitted after opening of the bids.
17	In which case mobilization advance is given and incorporated in payment term of tender document?	Mobilization advance invariably not allowed in any tender. Only in exceptional cases (like high value tender with specific reason and specific job requirement) are allowed but with interest bearing as per PLR Rate of SBI interest rate of base rate of SBI plus 6.25%.
18	Which Operating System, bidder to opt for uploading of E-bid in e-Tender portal of BCPL?	Bidder must possess a PC / Laptop with Windows7 professional operating system and Internet Explorer 9 or above for hassle free bidding. PC Security System to be changed /adjusted as per Ready reckoner available in home page of e-tender portal

PS: The following documents in addition to uploading in the bid on BCPL's E-Tendering website shall also be submitted in Original (in physical form) within 7 (seven) days from the bid due date provided the scanned copies of the same have been uploaded in E-Tender by the bidder along with e-bid within the due date and time to the address mentioned in Bid Data Sheet (BDS):-

- i) **Demand Draft towards Tender fee (if applicable)**
- ii) **EMD/Bid Security (if applicable)**
- iii) **Power of Attorney**



विषय – सूची

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बोली हेतु आमंत्रण (आईएफबी) **INVITATION FOR BIDS [IFB]**



SECTION - I
INVITATION FOR BID [IFB]

To,

Dt 21.12.2018

PROSPECTIVE BIDDERS

SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir/Madam,

1.0 Brahmaputra Cracker and Polymer Limited, Lepetkata (A Government of India Enterprise) invites bids from eligible bidders for the subject procurement, in complete accordance with the following details and enclosed Tender Documents.

2.0 The brief details of the tender are as under:

I	PERIOD OF CONTRACT/ DELIVERY SCHEDULE/PERIOD	:	Period of Contract shall be 17 months from the date of LOI/LOA
II	TENDER FEE	:	Not Applicable
III	EARNEST MONEY DEPOSIT (EMD)	:	Not Applicable
IV	BID DUE DATE & TIME	:	17.01.2019 upto 1430 Hrs
V	OPENING OF UNPRICED BID	:	18.01.2019 at 1500 Hrs.
VI	VALIDITY OF OFFER UPTO	:	17.04.2019
VII	VENUE FOR OPENING OF UNPRICED BIDS	:	Brahmaputra Cracker and Polymer Limited (A Government of India Enterprise), C&P Department, Administrative Building, PO: Lepetkata, Dist.: DIBRUGARH, Assam, Pin Code: 786006, Phone no. 0373 2914636.
VIII	MODE OF TENDERING	:	Open Domestic Competitive Bidding E-tendering Mode (Under Two Bid System Basis) with uploading in GAIL's/BCPL's Website: https://www.gailtenders.in; http://www.bcplonline.co.in; Govt. Website: https://www.eprocure.gov.in/GeM website
IX	DATE AND TIME OF PRE- BID CONFERENCE VENUE	:	04.01.2019 at 15.00 hrs. Brahmaputra Cracker and Polymer Limited, C&P Department, Administrative Building, PO: Lepetkata, Dist.: DIBRUGARH, Assam, Pin Code: 786006, Phone no. 0373 2914636.

In case of the days specified above happens to be a holiday in BCPL, the next working day shall be implied.



- 3.0 Bids must be submitted strictly in accordance with Clause No. 11 of ITB depending upon Type of Tender as mentioned at Clause no. 2.0 (VIII) of IFB. The IFB is an integral and inseparable part of the bidding document.
- 4.0 The following documents in addition to uploading in the bid on BCPL's e-tendering website shall also be submitted in Original (in physical form) within 7 (seven) days from the bid due date provided the scanned copies of the same have been uploaded in e-tender by the bidder along with e-bid within the due date and time to the address mentioned in Bid Data Sheet(BDS):-
- i) Demand Draft towards Tender fee (if applicable)
 - ii) EMD/Bid Security (if applicable)
 - iii) Power of Attorney
- 5.0 Bidder(s) are advised to quote strictly as per terms and conditions of the tender documents and not to stipulate any deviations/exceptions.
- 6.0 Any bidder, who meets the Bid Evaluation Criteria (BEC)/Bidder's Eligibility Criteria(BEC) and wishes to quote against this tender, may download the complete bidding document along with its amendment(s) if any from GAIL's website/BCPL's website (<http://gailtenders.in>; <http://www.bcplonline.co.in> or <http://etenders.gov.in>) and submit their Bid complete in all respect as per terms & conditions of Tender Document on or before the due date of bid submission.
- 7.0 Offer(s) received from bidders to whom tender/information regarding tender has been issued as well as offers received from the bidder(s) by downloading tender document from GAIL's web site/BCPL's website shall be taken into consideration for evaluation & award provided that the bidders are found responsive.
- 8.0 Clarification(s)/Corrigendum(s) if any shall also be available on above referred websites & will not be published on any other Media/Press. Bidders are requested to visit above websites regularly to keep themselves updated.
- 9.0 All the bidders including those who are not willing to submit their bid are required to submit F-11 (Acknowledgement cum Consent letter) duly filled within 7 days from receipt of tender information.
- 10.0 SAP generated RFQ (if any) shall also form an integral part of the Tender Document.
- 11.0 BCPL reserves the right to reject any or all the bids received at its discretion without assigning any reason whatsoever.

A Pre-Bid conference (PBC) is scheduled **on 04.01.2019 at 15.00 HOURS** in **Conference Room of C&P Department, Administrative Building, PO: Lepetkata, Dist.: DIBRUGARH, Assam, Pin Code:786006, Phone no. 0373 2914636.**, to discuss Scope of Work, Terms and Conditions of tender document. For participation contact Sr. Manager (C&P) Phone No. 0265 2914636; Email ID: neeta.dutta@bcplindia.co.in

This is not an Order.

For & on behalf of
Brahmaputra Cracker and Polymer limited

[Neeta Dutta]
Senior Manager [C&P]
Ph: +91-0373-2914636; +91-8011117266
E-mail: neeta.dutta@bcplindia.co.in



भाग – II **SECTION – II**

बोली मूल्यांकन मानदंड) बीईसी)
और
मूल्य बोली मूल्यांकन कार्यप्रणाली

BID EVALUATION CRITERIA (BEC) **&** **PRICE BID EVALUATION** **METHODOLOGY**



SECTION-II

1. BID EVALUATION CRITERIA [BEC]

1.0 BID EVALUATION CRITERIA (BEC):

1.1 BEC- Technical: (as a single bidder)

1.1.1 Bidder should be a PSU/Govt. Construction Agency & should have been in construction line for a minimum period of 5 years reckoned from the due date of unpriced bid opening.

1.1.2 The PSU/Govt. Construction Agency should have **executed & completed** at least one (01) single order/contract of “**similar nature of work**” in **Govt./Public Sector Undertaking / Semi Government / Autonomous Body** of value not less than **Rs.1257 lakh** in previous seven (07) years prior to the due date of bid submission.

Note 1:

- a) Bidder(s) shall be required to submit the documents in respect of above experience criteria as per details at sl. no. 1.3 below.
- b) Definition of “**similar nature of work**”:
“Construction of multistoried / high rise buildings involving design, engineering, supervision and construction works”
- c) If the work order(s)/contract(s) submitted by the bidder along with the bid to comply BEC clause no. 1.1.2 is of composite nature, in such case, the executed value other than the ‘**similar nature of work**’ as mentioned above at sl. no. (b) shall not be considered for qualification of bidder.
- d) The experience acquired by a bidder for Project Management Consultancy (PMC) job cannot be considered for qualifying the experience of BEC.

Note 2:

- a) Original work/service order/contract/ agreement and its completion/execution certificate or equivalent should be available with the bidder for verification of the same, if so desired by BCPL.

1.1.3 Relaxed Norms for Startups in prior experience criteria:

Not applicable

1.2 BEC- Financial: (as a single bidder)

1.2.1 TURN OVER:

The **annual turnover** of the bidder must have **minimum value** of **Rs.1257 lakh** as per the audited financial result (Balance sheet and profit & Loss account statement)



in any of the preceding three (03) financial years ending on 31st March '2018, i.e FY: 2017-18, 2016-17 & 2015-16.

1.2.2 NET WORTH:

Net Worth of the bidder should be **positive** as per the **last audited financial statement**, i.e. FY: 2017-18.

1.2.3 WORKING CAPITAL:

The bidder should have **minimum working capital** of value Rs.241.40 lakh as per the last audited financial statement for the year i.e. the financial year 2017-2018.

Note:

- i) If the bidder's working capital is negative or inadequate as per BEC clause no. 1.2.3, the bidder shall submit/upload a letter from the bidder's bank as per **Format, F-15** having net worth not less than **Rs.100 crores**, confirming the availability of line of credit to cover the inadequacy of working capital to meet the working capital requirement as mentioned above at **BEC clause no. 1.2.3** (Format specified in tender document).
- ii) Bidder has to compulsorily upload / submit the audited financial results for the immediate 3 preceding financial years **as per BEC clause no. 1.2.1** i.e FY: 2017-18, 2016-17 & 2015-16.

1.2.4 Relaxed Norms for Startups in financial criteria:

Not applicable

1.3 Documents/Documentary Evidence required to be uploaded (submitted) in e-tender portal of BCPL by the bidder along with other bid documents for qualifying the BEC mentioned at sl. no. 1.1 & 1.2:

Sr. No.	BEC Clause no.	Description	Documents required along with Unpriced bid for qualifying BEC (Bid Evaluation Criterion) [All documents must be duly authenticated/ attested]
	1.1	Technical Experience Criteria – Document	[All documents to be uploaded(submitted) must be <u>Certified/attested by both Chartered Engineer and Notarized by Notary Public with legible stamp</u>]
1.	1.1.1	Experience against status of the Company	a) Bidder must submit/upload relevant document(s) to substantiate that the bidder is a PSU/Government Construction Agency. b) Bidder must submit/upload relevant document(s) to substantiate that bidder is in construction line since last 5 years or more from the date of unpriced bid opening.
2.	1.1.2	Experience against execution &	a) Bidder must submit/upload the Copy of Order/LOA/Contract/Agreement along with it's detail SOR items & scope of work which has been executed



Sr. No.	BEC Clause no.	Description	Documents required along with Unpriced bid for qualifying BEC (Bid Evaluation Criterion) [All documents must be duly authenticated/ attested]
		completion of order	towards similar nature of jobs as mentioned at clause no. 1.1.2 of BEC in previous seven (07) years to be reckoned from the due date of unpriced bid opening. b) Copy of Completion Certificate or equivalent against the Order/LOA/Contract/Agreement as mentioned at point “a” above, must be submitted. The <u>Completion Certificate or equivalent</u> must contain the detailed information like Order/ LOA/ Contract/Agreement No. with date, Brief Scope of work / Name of work, Order value, Total executed value, Scheduled date of Work completion and date of Actual work completion etc. The <u>Completion Certificate or equivalent</u> should have been issued by the end-user/owner/authorized consultant.
	1.2	Financial Experience Criteria- Document [All audited financial statements/documents {balance sheet and profit & loss account statement under 1.2.1(Not applicable for startup as mentioned in BEC clause no. 1.2.4), 1.2.2 & 1.2.3 of above BEC } to be uploaded / submitted must be <u>duly Certified/attested by Notary public with legible stamp</u>]	
3.	1.2.1	Annual Turn-over	Bidder(s) shall submit/upload copy(s) of audited financial result (Balance sheet and profit & Loss account statement) of the preceding three (03) Financial Year(s), i.e. FY: 2017-18, 2016-17 & 2015-16.
4.	1.2.2	Net worth	Bidder(s) shall submit/upload copy of audited financial result (Balance sheet and Profit & Loss account statement) of last audited Financial Year, i.e. FY: 2017-18.
5.	1.2.3	Working Capital	Bidder(s) shall submit/upload copy of audited financial statement Balance sheet and Profit & Loss account statement for the last audited Financial Year, i.e. FY: 2017-18. <i>If the bidder's <u>working capital</u> is negative or inadequate as per BEC clause no. 1.2.3, the bidder shall submit/upload a letter from the bidder's bank as per Format, F-15 having net worth not less than Rs.100 crores, confirming the availability of line of credit to cover the inadequacy of working capital to meet the working capital requirement as mentioned above at BEC clause no. 1.2.3 (Format specified in tender document).</i>



Sr. No.	BEC Clause no.	Description	Documents required along with Unpriced bid for qualifying BEC (Bid Evaluation Criterion) [All documents must be duly authenticated/ attested]
6.		Format, F-16	"Details of financial capability of bidder" shall be submitted in the prescribed Format, F-16 enclosed duly signed and stamped by a Chartered Accountant only .

Note to above Bid Evaluation Criteria (point no. 1.0):

- i) A job executed by a bidder for its own plant/projects cannot be considered as experience for the purpose of meeting requirement of BEC of the tender. However jobs executed for a subsidiary / Fellow Subsidiary / Holding company will be considered as experience for the purpose of meeting BEC subject to submission of Tax paid invoice (s) duly certified by Statutory Auditor of the bidder towards payment of Statutory tax in support of the job executed for subsidiary/Fellow subsidiary/Holding company. Such bidders to upload (submit) these documents in addition to the documents specified in the bidding documents to meet BEC.
- ii) Bids of Joint Venture/ Consortium and sub-contractors are not acceptable.
- iii) **The cut-off date for meeting the criteria of BEC of the tender shall be the due date for unpriced bid opening.**

2.0 Methodology for Evaluation of Bids & Award:

- 2.1 BCPL will evaluate and compare the Price bids of the techno-commercially qualified bidders whose bids are previously determined to be substantially responsive pursuant to "ITB: Clause-29".
- 2.2 Evaluation of all Techno-Commercially qualified bids shall be done on over all L1 basis excluding applicable GST for award.
- 2.3 In case of tie between bidders, job shall be awarded to the bidder having higher turnover in last audited financial year.
- 2.4 **CPBG: The following CPBG clause shall be incorporated in tender document,**
 - 2.4.1 The contract performance security @ 10% of contract value has to be deposited within 30 days of receipt of LOA/LOI and must be valid for 3 months beyond the defect liability period. For the purpose of Contract Performance Security, Contract/order value shall be exclusive of GST. Details as per ITB of Tender document.

2.5 PPP Policy 2012:

Considering the nature of job, splitting of quantities will not be possible in this case and hence the clause for award of 25 % of ordered quantity to MSE as per PPP 2012 is not possible. Therefore, MSE quoting price within price band of L1 (other than MSE) + 15%, may be awarded for full/ complete services of tendered value subject to



matching of L1 price as per ITB of tender document. In case two or more MSE bidders comes within the price band of L1 + 15%, the preference to match the L1 rate shall be given in sequence of their inter-se position (L2, L3... and so on).

NOTE TO "BID EVALUATION CRITERIA [BEC]"

[FOR STRICT COMPLIANCE]

- [I] BIDDERS MUST FURNISH ALL RELEVANT CERTIFICATES/DOCUMENTS/INFORMATION IN SUPPORT OF THEIR CREDENTIALS TO THE ABOVE "ELIGIBILITY CRITERIA" ALONGWITH THE 'OFFER', FAILING WHICH THE 'OFFER' MAY BE REJECTED SUMMARILY.
- [II] BIDDERS NOT MEETING ANY OF THE ABOVE- MENTIONED CRITERIA SHALL BE REJECTED WITHOUT ASSIGNING ANY REASON.

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भाग – III

SECTION – III

बोलीदाताओं के लिए निर्देश (आईटीबी)

INSTRUCTIONS TO BIDDERS (ITB) [TO BE READ IN CONJUNCTION WITH BIDDING DATA SHEET (BDS)]



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34. PURCHASE PREFERENCE

[F] AWARD OF CONTRACT:

35. AWARD
36. NOTIFICATION OF AWARD / FAX OF ACCEPTANCE [FOA]
37. SIGNING OF AGREEMENT
38. CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT
39. PROCEDURE FOR ACTION IN CASE CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES
40. PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISE
41. AHR ITEMS
42. VENDOR PERFORMANCE EVALUATION PROCEDURE
43. INCOME TAX & CORPORATE TAX
44. SETTLEMENT OF DISPUTES BETWEEN GOVERNMENT DEPARTMENT AND ANOTHER AND ONE GOVERNMENT DEPARTMENT AND PUBLIC ENTERPRISE AND ONE PUBLIC ENTERPRISE AND ANOTHER
45. DISPUTE RESOLUTION
46. BILLING SYSTEM
47. TRANSPARENCY
48. SALE OF BID DOCUMENTS
49. SUBLETTING & ASSIGNMENT
50. DIRECT PAYMENTS TO SUB-VENDORS / SUPPORTING AGENCIES OF MAIN CONTRACTOR
51. CHECK MEASUREMENT

[G] ANNEXURES:

1. ANNEXURE-I: PROCEDURE FOR ACTION IN CASE CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES
2. ANNEXURE-II: VENDOR PERFORMANCE EVALUATION PROCEDURE
3. ANNEXURE-III: ADDENDUM TO INSTRUCTIONS TO BIDDERS (INSTRUCTION FOR PARTICIPATION IN E-TENDER)
4. ANNEXURE-IV: **BIDDING DATA SHEET (BDS)**

[H] FORMS & FORMATS



SECTION-III
INSTRUCTIONS TO BIDDERS [ITB]
[TO BE READ IN CONJUNCTION WITH BIDDING DATA SHEET (BDS)]

[A] – GENERAL

1. SCOPE OF BID

- 1.1. The Employer/ Owner/ BCPL as defined in the "General Conditions of Contract [GCC]", wishes to receive Bids as described in the Bidding Document/Tender document issued by Employer/Owner/BCPL.
- 1.2. SCOPE OF BID: The scope of Supply shall be as defined in the Bidding documents.
- 1.3. The successful bidder will be expected to complete the scope of Bid within the period stated in Special Conditions of Contract.
- 1.4. Throughout the Bidding Documents, the terms 'Bid', 'Tender' & 'Offer' and their derivatives [Bidder/Tenderer, Bid/Tender/Offer etc.] are synonymous. Further, 'Day' means 'Calendar Day' and 'Singular' also means 'Plural'.

2. ELIGIBLE BIDDERS

- 2.1. The Bidder shall not be under a declaration of ineligibility by Employer for Corrupt/ Fraudulent/ Collusive/ Coercive practices, as defined in "Instructions to Bidders [ITB], Clause No. 39" (Action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices).
- 2.2. The Bidder is not put on 'Holiday' by GAIL/BCPL or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices") or banned/blacklisted by Government department/ Public Sector on due date of submission of bid. Further, neither bidder nor their allied agency/(ies) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on banning list of GAIL/BCPL or the Ministry of Petroleum and Natural Gas.

If the bidding documents were issued inadvertently/ downloaded from website, offers submitted by such bidders shall not be considered for opening/ evaluation/Award and will be returned immediately to such bidders.

In case there is any change in status of the declaration prior to award of contract, the same has to be promptly informed to BCPL by the bidder.

It shall be the sole responsibility of the bidder to inform BCPL in case the bidder is put on 'Holiday' by GAIL/BCPL or Public Sector Project Management Consultant (like EIL, Mecon. only due to "poor performance" or "corrupt and fraudulent practices") or banned/blacklisted by Government department/ Public Sector on due date of submission of bid and during the course of finalization of the tender. Concealment of the facts shall tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause 39 of ITB.

- 2.3. The Bidder should not be under any liquidation court receivership or similar proceedings on due date of submission of bid.

In case there is any change in status of the declaration prior to award of contract, the same has to be promptly informed to BCPL by the bidder.

- 2.4. It shall be the sole responsibility of the bidder to inform BCPL in case the bidder is under any liquidation, court receivership or similar proceedings on due date of



submission of bid and during the course of finalization of the tender. Concealment of the facts shall tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause no.39 of ITB.

2.5. Bidder shall not be affiliated with a firm or entity:

- (i) that has provided consulting services related to the Procurement to the Employer during the preparatory stages of the Procurement or of the project of which the Supply forms a part of or
- (ii) that has been hired (proposed to be hired) by the Employer as an Engineer/ Consultant for the contract.

2.6. Neither the firm/entity appointed as the Project Management Consultant (PMC) for a contract nor its affiliates/ JV'S/ Subsidiaries shall be allowed to participate in the tendering process unless it is the sole Licensor/Licensor nominated agent/ vendor.

2.7. Pursuant to qualification criteria set forth in the bidding document, the Bidder shall furnish all necessary supporting documentary evidence to establish Bidder's claim of meeting qualification criteria.

2.8. **SUB-VENDOR/CONTRACTOR: Regarding consideration of experience acquired by a bidder as a sub-contractor** for meeting the experience criteria of BEC in tender: **NOT ACCEPTABLE.**

2.9. No firm can be a **sub-Contractor** while submitting a bid individually in the same bidding process.

3. **BIDS FROM "JOINT VENTURE"/"CONSORTIUM"**- [FOR APPLICABILITY OF THIS CLAUSE REFER BIDDING DATA SHEET (BDS)]- **NOT APPLICABLE FOR THIS TENDER**

4. **ONE BID PER BIDDER**

4.1. A Firm/Bidder shall submit only 'one [01] Bid' in the same Bidding Process individually as a Bidder. A Bidder who submits or participates in more than 'one [01] Bid' will cause all the proposals in which the Bidder has participated to be disqualified.

4.2. Alternative Bids shall not be considered.

5. **COST OF BIDDING & TENDER FEE**

5.1. **COST OF BIDDING**

The Bidder shall bear all costs associated with the preparation and submission of the Bid including but not limited to Bank charges all courier charges including taxes & duties etc. incurred thereof. Further, BCPL will in no case, be responsible or liable for these costs, regardless of the outcome of the bidding process.

5.2. **TENDER FEE- Not Applicable**

5.2.1. Tender Fee, if applicable, will be acceptable in the form of 'crossed payee accounts only' Demand Draft/ Banker's Cheque payable to BCPL. The Tender Fee is to be submitted along with the bid. Offers sent without payment of requisite Tender Fee will be ignored straightaway.



- 5.3. SMEs (Small & Micro Enterprises) are exempted from submission of Tender Fee in accordance with the provisions of Public Procurement Policy for MSE-2012 and Clause 40 of ITB. The Government Departments/PSUs are also exempted from the payment of tender fee.
- 5.4. In the event of a particular tender being cancelled, the tender fee will be refunded to the concerned bidders without any interest charges. No plea in this regard shall be entertained by the Owner.

6. SITE VISIT

- 6.1. The Bidder is advised to visit and examine the site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a Contract for the required job. The costs of visiting the site shall be borne by the Bidder.
- 6.2. The Bidder or any of its personnel or agents shall be granted permission by the Employer to enter upon its premises and land for the purpose of such visits, but only upon the express conditions that the Bidder, its personnel and agents will release and indemnify the Employer and its personnel, agents from and against all liabilities in respect thereof, and will be responsible for death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of inspection.
- 6.3. The Bidder shall not be entitled to hold any claim against BCPL for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

[B] – BIDDING DOCUMENTS

7. CONTENTS OF BIDDING DOCUMENTS

- 7.1. The contents of Bidding Documents / Tender Documents are those stated below, and should be read in conjunction with any 'Addendum / Corrigendum' issued in accordance with "ITB: Clause-9":

- Section-I : Invitation for Bid [IFB]
- Section-II : BID EVALUATION CRITERIA [BEC] & Price Evaluation Methodology
- Section-III : Instructions to Bidders [ITB]
Annexure
Forms & Format
- Section-IV : General Conditions of Contract [GCC]
- Section-V : Special Conditions of Contract [SCC] & Scope of Work [SOW]
- Section-VI : Health, Safety and Environment [HSE] Specifications
- Section-VII : Schedule of Rates

*Request for Quotation', wherever applicable, shall also form part of the Bidding Document.



- 7.2. The Bidder is expected to examine all instructions, forms, terms & conditions in the Bidding Documents. The "Request for Quotation [RFQ] & Invitation for Bid (IFB)" together with all its attachments thereto, shall be considered to be read, understood and accepted by the Bidders. Failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will be at Bidder's risk and may result in the rejection of his Bid.

8. CLARIFICATION OF BIDDING DOCUMENTS

- 8.1. A prospective Bidder requiring any clarification(s) of the Bidding Documents may notify BCPL in writing or by fax or email at BCPL's mailing address indicated in the **BDS no later than 02 (two) days prior to pre-bid meeting (in cases where pre-bid meeting is scheduled) or 05 (five) days prior to the bid closing date in cases where pre-bid meeting is not held.** BCPL reserves the right to ignore the bidders request for clarification if received after the aforesaid period. BCPL may respond in writing to the request for clarification. BCPL's response including an explanation of the query, but without identifying the source of the query will be uploaded on GAIL's/BCPL's tendering web site [<http://gaintenders.in>; <http://www.bcplonline.co.in> and Government Website] / communicated to prospective bidders by e-mail/ fax.
- 8.2. Any clarification or information required by the Bidder but same not received by the Employer at clause 8.1 (refer BDS for address) above is liable to be considered as "no clarification / information required".

9. AMENDMENT OF BIDDING DOCUMENTS

- 9.1. At any time prior to the 'Bid Due Date', Owner may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by addenda/ corrigendum.
- 9.2. Any addendum/ corrigendum thus issued shall be part of the Bidding Documents and may be hosted on GAIL's/BCPL's website [<http://gaintenders.in>; <http://www.bcplonline.co.in> and Government Website] /communicated to prospective bidders by e-mail/ fax. Bidders have to take into account all such addendum/ corrigendum before submitting their bid.
- 9.3. The Employer, if consider necessary, may extend the date of submissions of Bid in order to allow the Bidders a reasonable time to furnish their most competitive bid taking into account the amendment issued thereof.



[C] – PREPARATION OF BIDS

10. LANGUAGE OF BID:

The bid prepared by the bidder and all correspondence/drawings and documents relating to the bid exchanged by the Bidder and BCPL shall be written in English language alone.

11. DOCUMENTS COMPRISING THE BID

- 11.1. **Bids are invited under e-tendering Two Bid system.** Bidders are requested to refer instructions for participating in E-Tendering enclosed herewith as Annexure-III and the ready reckoner for bidders available in <https://www.eprocure.gov.in>. **Bids submitted manually shall be rejected, the bids must be submitted on BCPL's E-tendering website as follows:-**

The Bid prepared by the Bidder shall comprise the following components in 2 different folders:

- 11.1.1. **FOLDER-I: “TECHNO-COMMERCIAL / UN-PRICED BID”** shall contain the following:

- (a) 'Covering Letter' on Bidder's 'Letterhead' clearly specifying the enclosed contents and Earnest Money Deposit (EMD).
- (b) 'Bidder's General Information', as per 'Form F-1'.
- (c) 'Bid Form', as per 'Form F-2'
- (d) Copies of documents, as required in 'Form F-3'
- (e) As a confirmation that the prices are quoted in requisite format complying with the requirements copy of Schedule of Rate (SOR: Part – I) with prices blanked out mentioning **quoted / not quoted** (as applicable) written against each item.
- (f) 'Letter of Authority' on the Letter Head, as per 'Form F-5'
- (g) 'No Deviation Confirmation', as per 'Form F-6'
- (h) 'Bidder's Declaration regarding Bankruptcy', in 'Form F-7'
- (i) 'Certificate for Non-Involvement of Government of India ' from Bidder, as per 'Form F-8'
- (j) 'Agreed Terms and Conditions', as per 'Form F-10'
- (k) 'ACKNOWLEDGEMENT CUM CONSENT LETTER', as per 'Form F-11'
- (l) Duly attested documents in accordance with the "BID EVALUATION CRITERIA [BEC]" establishing the qualification.
- (m) Undertaking on the Letter head, as per the Form F-12.
- (n) Power of Attorney for authorized signatory in non-judicial stamp paper/copy of Board Resolution, the authorized signatory shall be signing the bid and any consequence resulting due to such signing shall be binding on the bidder.
- (o) Any other information/details required as per Bidding Document
- (p) All forms and Formats including Annexures.
- (q) Tender Document duly signed/ digitally signed by the Authorized Signatory.
- (r) Additional document specified in Bidding Data Sheet (BDS).
- (s) Copy of EMD/Bid Bond *
- (t) Tender fee (wherever applicable)and
- (u) Copy of Power of Attorney



Note: All the pages of the Bid must be signed by the "Authorized Signatory" of the Bidder.

However, bidders must submit the original "Bid Security / EMD & tender fee (if applicable), Power of Attorney and any other documents specified in the bidding documents to address mentioned in IFB, in a sealed envelope, super scribing the Tender details & number within 7 days from the date of un-priced bid opening.

***The Original Bid Security/ EMD, copy of which has been uploaded, must be received within 7 days from the date of un-priced bid opening, failing which the bid will be rejected notwithstanding the fact that a copy of EMD/ Bid Security was earlier uploaded by the bidder. In the event bidder fails to upload a copy of the same EMD/ Bid Security in his e-bid and hard copy of same has also not been received as on the date & time of bid submission, the bid shall be summarily rejected. Pages of the Bid must be digitally signed by the "authorized signatory" of the Bidder. Refer Annexure-I for E-tendering. In e-tenders, bids need to be digitally signed by the person holding power of attorney.**

11.1.2. FOLDER-II: Price Bid

- i) The Prices are to be filled strictly in the Schedule of Rate (SOR: Part – II) of the bidding documents. BCPL shall not be responsible for any failure on the part of the bidder to follow the instructions.
- ii) Bidders are advised NOT to mention Rebate/Discount separately, either in the SOR format or anywhere else in the offer. In case Bidder(s) intend to offer any Rebate/Discount, they should include the same in the item rate(s) itself under the "Schedule of Rates (SOR)" and indicate the discounted unit rate(s) only.
- iii) If any unconditional rebate has been offered in the quoted rate the same shall be considered in arriving at evaluated price. However no cognizance shall be taken for any conditional discount for the purpose of evaluation of the bids.
- iv) In case, it is observed that any of the bidder(s) has/have offered suo-moto Discount/Rebate after opening of unpriced bid but before opening of price bids such discount /rebate(s) shall not be considered for evaluation. However, in the event of the bidder emerging as the lowest evaluated bidder without considering the discount/rebate(s), then such discount/rebate(s) offered by the bidder shall be considered for Award of Work and the same will be conclusive and binding on the bidder.
- v) In the event as a result of techno-commercial discussions or pursuant to seeking clarifications / confirmations from bidders, while evaluating the un-priced part of the bid, any of the bidders submits a sealed envelope stating that it contains revised prices; such bidder(s) will be requested to withdraw the revised prices failing which the bid will not be considered for further evaluation.
- vi) In case any bidder does not quote for any item(s) of "Schedule of Rates" and the estimated price impact is more than 10% of the quoted price, then the bid will be rejected. If such price impact of unquoted items is 10% or less of his quoted price, then the unquoted item(s) shall be loaded highest of the price quoted by the other bidders. If such bidder happens to be lowest evaluated



bidder, price of unquoted items shall be considered as included in the quoted bid price.

Note: Provision mentioned at para 11.1.2 hereinabove and to be uploaded in SOR attachment/Conditions of E-tendering portal.

12. SCHEDULE OF RATES / BID PRICES

- 12.1. Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole works as described in Bidding Documents, based on the rates and prices submitted by the Bidder and accepted by the Employer. The prices quoted by the Bidders will be inclusive of all taxes except **GST (CGST&SGST/UTGST or IGST)**.
- 12.2. Prices must be filled in format for "Schedule of Rates [SOR]" enclosed as part of Tender document. If quoted in separate typed sheets and any variation in item description, unit or quantity is noticed; the Bid is liable to be rejected.
- 12.3. Bidder shall quote for all the items of "SOR" after careful analysis of cost involved for the performance of the completed item considering all parts of the Bidding Document. In case any activity though specifically not covered in description of item under "SOR" but is required to complete the works as per Specifications, Scope of Work / Service, Standards, General Conditions of Contract ("GCC"), Special Conditions of Contract ("SCC") or any other part of Bidding Document, the prices quoted shall deemed to be inclusive of cost incurred for such activity.
- 12.4. All duties, taxes and other levies [if any] payable by the Contractor under the Contract, or for any other cause except final **GST (CGST&SGST/UTGST or IGST)** shall be included in the rates / prices and the total bid-price submitted by the Bidder. Applicable rate of **GST (CGST&SGST/ UTGST or IGST)** on the contract value shall be indicated in Agreed Terms & Conditions (Format-F10) and SOR.
- 12.5. Prices quoted by the Bidder, shall remain firm and fixed and valid until completion of the Contract and will not be subject to variation on any account. Any new taxes & Duties, if imposed by the State/ Govt. of India after due date of bid submission but before the Contractual Delivery Date, shall be reimbursed to the contractor on submission of documentary evidence for proof of payment to State/ Govt. Authorities and after ascertaining it's applicability with respect to the contract.
- 12.6. The Bidder shall quote the prices in 'figures' & words. There should not be any discrepancy between the prices indicated in figures and the price indicated in words. In case of any discrepancy, the same shall be dealt as per clause no. 30 of ITB.
- 12.7. Further, Bidder shall also mention the **Service Accounting Codes (SAC)** at the designated place in SOR.

13. GST (CGST & SGST/ UTGST or IGST)

- 13.1. Bidders are required to submit copy of the GST Registration Certificate while submitting the bids wherever **GST (CGST&SGST/UTGST or IGST)** is applicable.
- 13.2. Quoted prices should be inclusive of all taxes and duties, except **GST (CGST&SGST or IGST or UTGST)**. Please note that the responsibility of payment of **GST (CGST&SGST or IGST or UTGST)** lies with the Supplier of Goods / Services only. Supplier of Goods / Services (Service Provider) providing taxable



service shall issue an Invoice/Bill, as the case may be as per rules/ regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by Supplier of Goods / Services (Service Provider) with requisite details.

Payments to Service Provider for claiming **GST (CGST & SGST/ UTGST or IGST)** amount will be made provided the above formalities are fulfilled. Further, BCPL may seek copies of challan and certificate from Chartered Accountant for deposit of **GST (CGST&SGST/UTGST or IGST)** collected from Owner.

- 13.3. In case CBEC (Central Board of Excise and Customs)/ any equivalent government agency brings to the notice of BCPL that the Supplier of Goods / Services (Service Provider) has not remitted the amount towards **GST (CGST & SGST/ UTGST or IGST)** collected from BCPL to the government exchequer, then, that Supplier of Goods / Services (Service Provider) shall be put under Holiday list of BCPL for period of six months as mentioned in Procedure for Evaluation of Performance of Vendors/ Suppliers/Contractors/ Consultants.
- 13.4. In case of statutory variation in **GST (CGST&SGST/UTGST or IGST)**, other than due to change in turnover, payable on the contract value during contract period, the Supplier of Goods / Services (Service Provider) shall submit a copy of the 'Government Notification' to evidence the rate as applicable on the Bid due date and on the date of revision.

Beyond the contract period, in case BCPL is not entitled for input tax credit of **GST (CGST&SGST/UTGST or IGST)**, then any increase in the rate of **GST (CGST&SGST/UTGST or IGST)** beyond the contractual delivery period shall be to Service Provider's account whereas any decrease in the rate **GST (CGST&SGST/UTGST or IGST)** shall be passed on to the Owner.

Beyond the contract period, in case BCPL is entitled for input tax credit of **GST (CGST&SGST/UTGST or IGST)**, then statutory variation in applicable **GST (CGST&SGST/UTGST or IGST)** on supply and on incidental services, shall be to BCPL's account.

Claim for payment of **GST (CGST&SGST/UTGST or IGST)**/ Statutory variation, should be raised within two [02] months from the date of issue of 'Government Notification' for payment of differential (in %) **GST (CGST&SGST/UTGST or IGST)**, otherwise claim in respect of above shall not be entertained for payment of arrears.

The base date for the purpose of applying statutory variation shall be the Bid Due Date.

- 13.5. Where the BCPL is entitled to avail the input tax credit of **GST (CGST&SGST/UTGST or IGST)**:-
- 13.5.1. Owner/BCPL will reimburse the **GST (CGST&SGST/UTGST or IGST)** to the Supplier of Goods / Services (Service Provider) at actuals against submission of Invoices as per format specified in rules/ regulation of GST to enable Owner/BCPL to claim input tax credit of **GST (CGST&SGST/UTGST or IGST)** paid. In case of any variation in the executed quantities, the amount on which the **GST (CGST&SGST/UTGST or IGST)** is applicable shall be modified in same proportion. Returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.



- 13.5.2. The input tax credit of **GST (CGST&SGST/ UTGST or IGST)** quoted shall be considered for evaluation of bids, as per evaluation criteria of tender document.
- 13.6. Where the BCPL is not entitled to avail/take the full input tax credit of **GST (CGST&SGST/UTGST or IGST)**:-
- 13.6.1. Owner/BCPL will reimburse **GST (CGST&SGST/UTGST or IGST)** to the Supplier of Goods / Services (Service Provider) at actuals against submission of Invoices as per format specified in rules/ regulation of GST subject to the ceiling amount of **GST (CGST&SGST/UTGST or IGST)** as quoted by the bidder, subject to any statutory variations, except variations arising due to change in turnover. In case of any variation in the executed quantities (If directed and/or certified by the Engineer-In-Charge) the ceiling amount on which **GST (CGST&SGST/UTGST or IGST)** is applicable will be modified on pro-rata basis.
- 13.6.2. The bids will be evaluated based on total price including applicable GST (CGST&SGST/UTGST or IGST).
- 13.7. BCPL will prefer to deal with registered supplier of goods/ services under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet.

However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable **GST (CGST&SGST/ UTGST or IGST)** while evaluation of bid. Where BCPL is entitled for input credit of **GST (CGST & SGST/ UTGST or IGST)**, the same will be considered for evaluation of bid as per evaluation methodology of tender document.

- 13.8. In case BCPL is required to pay entire/certain portion of applicable **GST (CGST&SGST/ UTGST or IGST)** and remaining portion, if any, is to be deposited by Bidder directly as per **GST (CGST&SGST/ UTGST or IGST)** laws, entire applicable rate/amount of **GST (CGST&SGST/ UTGST or IGST)** to be indicated by bidder in the SOR.

Where BCPL has the obligation to discharge **GST (CGST&SGST/ UTGST or IGST)** liability under reverse charge mechanism and BCPL has paid or is /liable to pay **GST (CGST&SGST/ UTGST or IGST)** to the Government on which interest or penalties becomes payable as per GST laws for any reason which is not attributable to BCPL or ITC with respect to such payments is not available to BCPL for any reason which is not attributable to BCPL, then BCPL shall be entitled to deduct/ setoff / recover such amounts against any amounts paid or payable by BCPL to Contractor / Supplier.

- 13.9. Contractor shall ensure timely submission of invoice(s) as per rules/ regulations of GST with all required supporting document(s) within a period specified in Contracts/ LOA to enable BCPL to avail input tax credit. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.

If input tax credit with respect to **GST (CGST&SGST/UTGST or IGST)** is not available to BCPL for any reason which is not attributable to BCPL, then BCPL shall not be obligated or liable to pay or reimburse **GST (CGST&SGST/UTGST or IGST)** charged in the invoice(s) and shall be entitled to / deduct/ setoff /recover the such **GST (CGST&SGST/UTGST or IGST)** thereupon together with all



penalties and interest if any, against any amounts paid or payable by BCPL to Supplier of Goods / Services.

13.10. Anti-profiteering clause

As per Clause 171 of GST Act it is mandatory to pass on the benefit due to reduction in rate of tax or from input tax credit to the consumer by way of commensurate reduction in prices. The Supplier of Goods / Services may note the above and quote their prices accordingly.

- 13.11. In case the GST rating of vendor on the GST portal / Govt. official website is negative / black listed, then the bids may be rejected by BCPL. Further, in case rating of bidder is negative / black listed after award of work for supply of goods / services, then BCPL shall not be obligated or liable to pay or reimburse GST to such vendor and shall also be entitled to deduct / recover such GST along with all penalties / interest, if any, incurred by BCPL.

14. BID CURRENCIES:

Bidders must submit bid in Indian Rupees only.

15. BID VALIDITY

- 15.1. Bids shall be kept valid for period specified in BDS from the final 'Bid Due Date'. A Bid valid for a shorter period may be rejected by BCPL as 'non-responsive'.
- 15.2. In exceptional circumstances, prior to expiry of the original 'Bid Validity Period', the Employer may request the Bidders to extend the 'Period of Bid Validity' for a specified additional period. The request and the responses thereto shall be made in writing or by fax/email. A Bidder may refuse the request without forfeiture of his 'Bid Security'. A Bidder agreeing to the request will not be required or permitted to modify his Bid, but will be required to extend the validity of its 'Bid Security' for the period of the extension and in accordance with "ITB: Clause-16" in all respects.

16. EARNEST MONEY/BID SECURITY: Not Applicable for this tender

(THE ORIGINAL DEMAND DRAFT OR BANK GUARANTEE SHALL BE FORWARDED TO BCPL. THE ORIGINAL HARDCOPY OF DEMAND DRAFT OR BANK GUARANTEE OF EMD HAS TO BE REACHED BCPL ON OR BEFORE 7 DAYS AFTER OPENING OF UN PRICED BID. OTHERWISE THE BID SHALL BE REJECTED.)

- 16.1. Bids must be accompanied with 'Earnest Money / Bid Security' in the form of 'Demand Draft' or 'Banker's Cheque'[in favor of Brahma Putra Cracker & Polymer Ltd., payable at Dibrugarh, Assam] or 'Bank Guarantee' as per the format given in Form -4 of the bidding documents. Bidders shall ensure that 'Bid Security', having a validity of at least 'two [02] months' beyond the validity of the bid, must accompany the Bid in the format(s) made available in the Bidding Document. Bid not accompanied with 'Bid Security', or 'Bid Security' not in requisite form shall be liable for rejection. The Bid Security shall be submitted in Indian Rupees only.
- 16.2. The 'Bid Security' is required to protect BCPL against the risk of Bidder's conduct, which would warrant the 'Bid Security's' forfeiture, pursuant to "ITB: Clause-16.7"



- 16.3. BCPL shall not be liable to pay any Bank charges, commission or interest etc. on the amount of 'Bid Security'. In case 'Bid Security' is in the form of a 'Bank Guarantee', the same shall be from any Indian scheduled Bank or a branch of an International Bank situated in India and registered with 'Reserve Bank of India' as Scheduled Foreign Bank. However, in case of 'Bank Guarantee' from Banks other than the Nationalized Indian Banks, the Bank must be commercial Bank having net worth in excess of Rs. 100 Crores [Rupees One Hundred Crores] and a declaration to this effect should be made by such commercial Bank either in the 'Bank Guarantee' itself or separately on its letterhead. 'Earnest Money / Bid Security' shall be valid for 'two [02] months' beyond the 'Bid Validity Period'
- 16.4. Any Bid not secured in accordance with "ITB: Clause-16.1 & Clause-16.3" may be rejected by BCPL as non-responsive.
- 16.5. **Unsuccessful Bidder's 'Earnest Money / Bid Security' will be discharged/ returned as promptly as possible, but not later than 'thirty [30] days' after finalization of tender.**
- 16.6. The successful Bidder's 'Bid Security' will be discharged upon the Bidder's acknowledging the 'Award' and signing the 'Agreement' and furnishing the 'Contract Performance Security / Security Deposit' pursuant to clause 37 & 38 of ITB.
- 16.7. Notwithstanding anything contained herein, the 'Bid Security' may also be forfeited in any of the following cases:
- (a) If a Bidder withdraws his Bid during the 'Period of Bid Validity'
 - (b) If a Bidder has indulged in corrupt/fraudulent /collusive/coercive practice
 - (c) If the Bidder modifies bids during the period of bid validity (after submission date).
 - (d) Violates any other condition, mentioned elsewhere in the tender document, which may lead to forfeiture of EMD.
 - (e) In the case of a successful Bidder, if the Bidder fails to:
 - (i) to acknowledge receipt the "Notification of Award" / "Fax of Intent [FOI]/ Fax of Acceptance[FOA]",
 - (ii) to furnish "Contract Performance Security / Security Deposit", in accordance with "ITB: Clause-38",
 - (iii) to accept 'arithmetical corrections' as per provision of the clause 30 of ITB.
- 16.8. In case Bid Security is in the form of 'Bank Guarantee', the same must indicate the Bid Document No. and the Work for which the Bidder is quoting. This is essential to have proper correlation at a later date. The 'Bid Security' should be in the form provided at 'Form F-4'.
- 16.9. **MSEs (Micro & Small Enterprises) are exempted from submission of EMD/Bid Security** in accordance with the provisions of PPP-2012 and Clause 40 of ITB. The Government Departments/PSUs are also exempted from the payment of Bid Security.
17. **PRE-BID MEETING**
- 17.1. The Bidder(s) or his designated representative are invited to attend a "Pre-Bid Meeting" which will be held at address specified in IFB. It is expected that a bidder shall not depute more than 02 representatives for the meeting.



- 17.2. Purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage and give hands-on e-tendering.
- 17.3. Text of the questions raised and the responses given, together with any responses prepared after the meeting, will be uploaded on GAIL's/BCPL's e-tendering website against the Tender. Any modification of the Contents of Bidding Documents listed in "ITB: Clause-7.1", that may become necessary as a result of the Pre-Bid Meeting shall be made by the Employer exclusively through the issue of an Addendum / Corrigendum pursuant to "ITB: Clause-9", and not through the minutes of the Pre-Bid Meeting.
- 17.4. Non-attendance of the Pre-Bid Meeting will not be a cause for disqualification of Bidder.
- 17.5. For more clarity of the site jobs and to clear the doubts of the bidders, a Pre-bid conference shall be arranged by BCPL at Lepetkata. All the prospective bidders are advised to attend the same at their own cost. However Non-participation in the pre-bid conference shall not dilute the bidder's responsibility.

18. FORMAT AND SIGNING OF BID

- 18.1. The original and all copies of the Bid shall be typed or written in indelible ink [in the case of copies, photocopies are also acceptable] and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder (as per POA). The name and position held by each person signing, must be typed or printed below the signature. All pages of the Bid except for unamended printed literature where entry(s) or amendment(s) have been made shall be initialed by the person or persons signing the Bid.
- 18.2. The Bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the Bid.
- 18.3. **All documents to be digitally signed and to be uploaded as detailed in addendum to ITB.**

19. ZERO DEVIATION AND REJECTION CRITERIA

- 19.1. ZERO DEVIATION: Deviation to terms and conditions of "Bidding Documents" may lead to rejection of bid. BCPL will accept bids based on terms & conditions of "Bidding Documents" only. Bidder may note BCPL will determine the substantial responsiveness of each bid to the Bidding Documents pursuant to provision contained in clause 29 of ITB. For purpose of this, a substantially responsive bid is one which conforms to all terms and conditions of the Bidding Documents without deviations or reservations. BCPL's determination of a bid's responsiveness is based on the content of the bid itself without recourse to extrinsic evidence. BCPL reserves the right to raise technical and/or commercial query(s), if required, may be raised on the bidder(s). The response(s) to the same shall be in writing, and no change in the price(s) or substance of the bids shall be sought, offered or permitted. The substance of the bid includes but not limited to prices, completion, scope, technical specifications, etc. Bidders are requested to not to take any deviation/exception to the terms and conditions laid down in this "Tender Documents", and submit all requisite documents as mentioned in this "Tender Documents", failing which their offer will be



liable for rejection. If a bidder does not reply to the queries in the permitted time frame then its bid shall be evaluated based on the documents available in the bid.

19.2. REJECTION CRITERIA: Notwithstanding the above, deviation to the following clauses of Tender document shall lead to summarily rejection of Bid:

- (a) Firm Price
- (b) Earnest Money Deposit / Bid Security
- (c) Specifications & Scope of Work
- (d) Schedule of Rates / Price Schedule / Price Basis
- (e) Duration / Period of Contract/ Delivery Schedule
- (f) Period of Validity of Bid
- (g) Price Reduction Schedule
- (h) Contract Performance Bank Guarantee / Security Deposit
- (i) Guarantee / Defect Liability Period
- (j) Arbitration / Resolution of Dispute/Jurisdiction of Court
- (k) Force Majeure & Applicable Laws
- (l) Any other condition specifically mentioned in the tender document elsewhere that non-compliance of the clause lead to rejection of bid

Note: Further, it is once again reminded not to mention any condition in the Bid which is contradictory to the terms and conditions of Tender document.

20. E-PAYMENT

BCPL has initiated payments to Suppliers and Contractors electronically, and to facilitate the payments electronically through '**e-banking**'. The successful bidder should give the details of his bank account as per the bank mandate form.

[D] – SUBMISSION OF BIDS

21. SUBMISSION, SEALING AND MARKING OF BIDS

- 21.1. Bids shall be submitted through e-tender mode in the manner specified elsewhere in tender document. No Manual/ Hard Copy (Original) offer shall be acceptable.
- 21.2. All the bids shall be addressed to the owner at address specified in IFB.
- 21.3. Bids submitted under the name of AGENT/ CONSULTANT/ REPRESENTATIVE /RETAINER/ ASSOCIATE etc. on behalf of a bidder/affiliate shall not be accepted.

22. DEADLINE FOR SUBMISSION OF BIDS

- 22.1. The bids must be submitted through e-tender mode not later than the date and time specified in the tender documents/BDS.
- 22.2. BCPL may, in exceptional circumstances and at its discretion, extend the deadline for submission of Bids (clause 9 of ITB refers). In which case all rights and obligations of BCPL and the Bidders, previously subject to the original deadline will thereafter be subject to the deadline as extended. Notice for extension of bid submission date will be uploaded on GAIL's/BCPL's website/ communicated to the bidders.



23. **LATE BIDS**

- 23.1. Any bids received after the notified date and time of closing of tenders will be treated as late bids.
- 23.2. In case of e-tendering, e-tendering system of BCPL shall close immediately after the deadline for submission of bid and no bids can be submitted thereafter.

Where the bid bond/physical documents has been received but the bid is not submitted by the bidder in the e-tendering portal, such bid bond/ physical documents shall be returned immediately.

- 23.3. Unsolicited Bids or Bids received to address other than one specifically stipulated in the tender document will not be considered for evaluation/opening/award if not received to the specified destination within stipulated date & time.

24. **MODIFICATION AND WITHDRAWAL OF BIDS**

- 24.1. Modification and withdrawal of bids shall be as follows:-

- 24.1.1. For E- TENDERING, the bidder may withdraw or modify its bid after bid submission but before the due date and time for submission as per tender document.

- 24.2. **No bid shall be allowed to be withdrawn/modified/substitute in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidder on the Bid Form.** Withdrawal/Modification/Substitution of a bid during this interval shall result in the bidder's forfeiture of his bid security pursuant to clause 16 of ITB and rejection of bid.

- 24.3. The latest bid hence submitted shall be considered for evaluation and all other bids shall be considered to be unconditionally withdrawn.

- 24.4. In case after price bid opening the lowest evaluated bidder (L1) is not awarded the job for any mistake committed by him in bidding or withdrawal of bid or modification of bid or varying any term in regard thereof leading to re-tendering, BCPL shall forfeit EMD paid by the bidder and such bidders shall be debarred from participation in re-tendering of the same job(s)/item(s). Further, such bidder will be put on holiday for a period of six months after following the due procedure.

25. **EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS**

BCPL reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the ground for BCPL's action. However, Bidder if so desire may seek the reason (in writing) for rejection of their Bid to which BCPL shall respond quickly.

[E] – BID OPENING AND EVALUATION



26. BID OPENING

26.1. *Unpriced Bid Opening:*

BCPL will open bids, in the presence of bidders' designated representatives who choose to attend, at date, time and location stipulated in the BDS. The bidders' representatives, who are present shall sign a bid opening register evidencing their attendance.

26.2. *Priced Bid Opening:*

26.2.1. BCPL will open the price bids of those bidders who meet the qualification requirement and whose bids is determined to be technically and commercially responsive. Bidders selected for opening of their price bids shall be informed about the date of price bid opening. Bidders may depute their authorized representative to attend the bid opening. The bidders' representatives, who are present shall sign a register evidencing their attendance and may be required to be present on a short notice.

26.2.2. The price bids of those bidders who were not found to be techno-commercially responsive shall be unopened and returned unopened after opening of the price bids of techno-commercially responsive bidders.

26.3. In case of bids invited under the single bid system, bid shall be opened on the specified due date & time.

27. CONFIDENTIALITY

Information relating to the examination, clarification, evaluation, and comparison of Bids, and recommendations for the award of a Contract, shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of the Bidder's Bid and action shall be initiated as per procedure in this regard.

28. CONTACTING THE EMPLOYER

28.1. From the time of Bid opening to the time of award of Contract, if any Bidder wishes to contact the Employer on any matter related to the Bid, it should do so in writing. Information relating to the examination, clarification, evaluation & recommendation for award shall not be disclosed.

28.2. Any effort by the Bidder to influence the Employer in the Employer's 'Bid Evaluation', 'Bid Comparison', or 'Contract Award' decisions may result in the rejection of the Bidder's Bid and action shall be initiated as per procedure in this regard.

29. EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS

29.1. The owner's determination of a bid's responsiveness is based on the content of the bid only. Prior to the detailed evaluation of Bids, the Employer will determine whether each Bid:-



- (a) Meets the "Bid Evaluation Criteria" of the Bidding Documents;
 - (b) Has been properly signed;
 - (c) Is accompanied by the required 'Earnest Money / Bid Security';
 - (d) Is substantially responsive to the requirements of the Bidding Documents; and
 - (e) Provides any clarification and/or substantiation that the Employer may require to determine responsiveness pursuant to "ITB: Clause-29.2"
- 29.2. A substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bidding Documents without material deviations or reservations or omissions for this purpose employer defines the foregoing terms below:-
- (a) "Deviation" is departure from the requirement specified in the tender documents.
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the tender document.
- 29.3. A material deviation, reservation or omission is one that,
- (a) If accepted would,
 - i) Affect in any substantial way the scope, quality, or performance of the job as specified in tender documents.
 - ii) Limit, in any substantial way, inconsistent with the Tender Document, the Employer's rights or the tenderer's obligations under the proposed Contract.
 - (b) If rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 29.4. The employer shall examine all aspects of the bid to confirm that all requirements have been met without any material deviation, reservation or omission.
- 29.5. If a Bid is not substantially responsive, it may be rejected by the Employer and may not subsequently be made responsive by correction or withdrawal of the material deviation, reservation or omission.

30. CORRECTION OF ERRORS

- 30.1. Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
- (i) When there is a difference between the rates in figures and words, the rate which corresponds to the amount worked out by the contractor (by multiplying the quantity and rate) shall be taken as correct.
 - (ii) When the rate quoted by the contractor in figures and words tallies but the amount is incorrect, the rate quoted by the contractor shall be taken as correct and not the amount and the amount corrected.
 - (iii) When it is not possible to ascertain the correct rate, in the manner prescribed above, the rate as quoted in words shall be adopted and the amount worked out, for comparison purposes



- 30.2. The amount stated in the bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors. If the bidder does not accept the corrected amount of bid, its bid will be rejected, and the bid security shall be forfeited.
31. **CONVERSION TO SINGLE CURRENCY FOR COMPARISON OF BIDS**
Not Applicable. All bids submitted must be in the currency specified at clause 14 of ITB.
32. **EVALUATION AND COMPARISON OF BIDS**
Bids shall be evaluated as per evaluation criteria mentioned in Section-II of bidding documents (refer clause 7.0 of ITB) after considering the effect of cenvat credit entitled. The employer shall only use the criteria and methodology indicated in Section-II of bidding documents. No other criteria/ methodology shall be permitted.
33. **COMPENSATION FOR EXTENDED STAY (FOR APPLICABILITY OF THIS CLAUSE REFER BDS):-NOT APPLICABLE FOR THIS TENDER**
34. **PURCHASE PREFERENCE**
Purchase preference to Central government public sector Undertaking and Micro and Small Enterprises (MSEs) shall be allowed as per Government instructions in vogue.

[F] – AWARD OF CONTRACT

35. **AWARD**
Subject to "ITB: Clause-29", BCPL will award the Contract to the successful Bidder whose Bid has been determined to be substantially responsive and has been determined as the lowest provided that bidder, is determined to be qualified to satisfactorily perform the Contract.
36. **NOTIFICATION OF AWARD / FAX OF ACCEPTANCE/LETTER OF INTENT**
- 36.1. Prior to the expiry of 'Period of Bid Validity', BCPL will notify the successful Bidder in writing, in the form of "Notification of Award" / "Fax of Intent [FOI]" / "Letter of Intent" through fax/e-mail, that his Bid has been accepted. The notification of award / Fax of Intent/Fax of Acceptance will constitute the formation of the Contract.
- 36.2. Contract period shall commence from the date of "Notification of Award" or as mentioned in the Notification of Award/Fax of Intent [FOI]/Letter of Intent. The "Notification of Award"/"Fax of Intent [FOI]" / "Letter of Intent" will constitute the formation of a Contract, until the Contract has been effected pursuant to signing of Contract as per "ITB: Clause-37".
Upon the successful Bidder's / Contractor's furnishing of 'Contract Performance Security / Security Deposit', pursuant to "ITB: Clause-38", BCPL will promptly discharge his 'Earnest Money / Bid Security', pursuant to "ITB: Clause-16"
37. **SIGNING OF AGREEMENT**
- 37.1. BCPL will award the Contract to the successful Bidder, who, within 'fifteen [15] days' of receipt of the same, shall sign and return the acknowledged copy to BCPL.



- 37.2. The successful Bidder/Contractor shall be required to execute an 'Agreement' in the proforma given in this Bidding Document on a 'non-judicial stamp paper' of appropriate value [cost of the 'stamp-paper' shall be borne by the successful Bidder/Contractor] and of 'state' specified in Bidding Data Sheet (BDS) only, within 'fifteen [15] days' of receipt of the "Letter of Acceptance [LOA]" of the Tender by the successful Bidder/Contractor failure on the part of the successful Bidder to sign the 'Agreement' within the above stipulated period, shall constitute sufficient grounds for forfeiture of EMD/Security Deposit.

38. CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT

- 38.1. Within 30 days of the receipt of the notification of award/ Fax of Acceptance from BCPL, the successful bidder shall furnish the Contract Performance Security/Guarantee in accordance with General Conditions of the Contract/as stipulated in Section-II of tender document. The Contract Performance Security/Guarantee shall be in the form of either Banker's Cheque or Demand Draft or Bank Guarantee and shall be in the currency of the Contract.

- 38.2. **The contract performance security shall be for an amount equal to 10% of Total Order / Contract Value (exclusive of GST) specified in Bidding Data Sheet (BDS)/as stipulated in Section-II of tender document towards faithful performance of the contractual obligations & performance of the works and same must be valid for 3 months beyond the expiry of Defect Liability Period.**

Bank Guarantee towards performance security/ security deposit shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank in case of Indian bidder as well as foreign bidder. However, in case of bank guarantees from banks other than the Nationalized Indian banks, the bank must be a commercial bank having net worth in excess of **Rs 100 crores** and a declaration to this effect should be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead. This bank guarantee shall be valid for a period of three months beyond the delivery schedule as specified in Bid Data Sheet (BDS).

- 38.3. Failure of the successful bidder to comply with the requirements of this article shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.
- 38.4. The CPBG/Security deposit has to cover the entire contract value including extra works/services also. As long as the CPBG/Security deposit submitted at the time of award take cares the extra works/ services executed and total executed value are within the awarded contract price, there is no need for additional security deposit/ Contract Performance Security. As soon as the total executed value is likely to burst the ceiling of awarded contract price, the contractor should furnish additional security deposit/ CPBG.

39. PROCEDURE FOR ACTION IN CASE CORRUPT/ FRAUDULENT/COLLUSIVE/ COERCIVE PRACTICES

- 39.1. Procedure for action in case Corrupt/ Fraudulent/Collusive/Coercive Practices is enclosed at Annexure-I.
- 39.2. The Fraud Prevention Policy document is available on GAIL's/BCPL's website (www.gailonline.com /www.bcplonline.com)



39.3. NON-APPLICABILITY OF ARBITRATION CLAUSE IN CASE OF BANNING OF VENDORS/ SUPPLIERS / CONTRACTORS/BIDDERS/ CONSULTANTS INDULGED IN FRAUDULENT/ COERCIVE PRACTICES

Notwithstanding anything contained contrary in GCC and other "CONTRACT DOCUMENTS", in case it is found that the Vendors/ Suppliers / Contractors/Bidders/ Consultants indulged in fraudulent/ coercive practices at the time of bidding, during execution of the contract etc., and/or on other grounds as mentioned in GAIL's/BCPL's "Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices" (Annexure-I), the contractor/bidder shall be banned (in terms of aforesaid procedure) from the date of issuance of such order by Brahmaputra Cracker and Polymer Ltd., to such Vendors/ Suppliers / Contractors/Bidders/ Consultants.

The Vendor/ Supplier / Contractor/ Bidder/Consultant understands and agrees that in such cases where Vendor/ Supplier / Contractor/ Bidder/Consultant has been banned (in terms of aforesaid procedure) from the date of issuance of such order by Brahmaputra Cracker and Polymer Ltd, such decision of Brahmaputra Cracker and Polymer Ltd shall be final and binding on such Vendor/ Supplier / Contractor/ Bidder/Consultant and the 'Arbitration clause' in the GCC and other "CONTRACT DOCUMENTS" shall not be applicable for any consequential issue /dispute arising in the matter.

40. PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISES

40.1. Following provision has been incorporated in tender for MSEs, in line with notification of Government of India, vide Gazette of India No. 503 dated 04.07.2012 proclaiming the Public Procurement Policy on procurement of goods and services from Micro and Small Enterprises (MSEs)

- i) Issue of tender document to MSEs free of cost.
- ii) Exemption to MSEs from payment of EMD/Bid Security.
- iii) In Tender participating Micro and Small Enterprises quoting price within the price band of L1 + 15% shall also be allowed to supply a portion of requirement by bringing down their prices to L1 price in a situation where L1 price is from someone other than a micro and small enterprise and such micro and small enterprises shall be allowed to supply upto 20% of the tendered value. In case of more than one such Micro and Small Enterprises, the supply shall be shared proportionately (to tendered quantity). Further, out of above 20%, 4% shall be from MSEs owned by SC/ST entrepreneurs. This quota is to be transferred to other MSEs in case of non-availability of MSEs owned by SC/ST entrepreneurs.

The quoted prices against various items shall remain valid in case of splitting of quantities of the items above.

In case tendered item is non-splitable or non- dividable (specified in Bid Data Sheet) , MSE quoting price within price band L1 (other than MSE) + 15% , may be awarded for full/ complete supply of total tendered value subject to matching of L1 price.

40.2. The MSEs owned by SC/ST entrepreneurs shall mean:-



- a) In case of proprietary MSE, Proprietor(s) shall be SC/ST.
 - b) In case of partnership MSE, the SC/ST partners shall be holding atleast 51% share in the unit
 - c) In case of private Limited Companies, at least 51%share is held by SC/ST. If the MSE is owned by SC/ST entrepreneurs, the bidder shall furnish appropriate documentary evidence in this regard.
- 40.3. In case bidder is a Micro or Small Enterprise under the Micro, Small and Medium Enterprises Development Act, 2006, the bidder shall submit the following :
- a) Documentary evidence that the bidder is a Micro or Small Enterprises registered with District Industries Centers or Khadi and Village Industries National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises or Udyog Aadhaar Memorandum.
 - b) If the MSE is owned by SC/ST Entrepreneurs, the bidder shall furnish appropriate documentary evidence in this regard.

The above documents submitted by the bidder shall be duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) and notary public with legible stamp. Hard copy of the same to be submitted.

If the bidder does not provide the above confirmation or appropriate document or any evidence, then it will be presumed that they do not qualify for any preference admissible in the Public Procurement Policy (PPP) 2012.

- 40.4. If against an order placed by BCPL, successful bidder(s) (other than Micro/Small Enterprise) is procuring material/services from their sub-vendor who is a Micro or Small Enterprise registered with District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises with prior consent in writing of the purchasing authority/Engineer-in-charge, the details like Name, Registration No., Address, Contact No. details of material & value of procurement made, etc. of such Enterprises shall be furnished by the successful bidder at the time of submission of invoice/Bill.

41. AHR ITEMS

In items rate contract where the quoted rates for the items exceed 50% of the owners/estimated Items rates, such items will be considered as Abnormally High Rates Items (AHR) and Payment of AHR items beyond the SOR stipulated quantities shall be made at the least of the following rates:

(I) Rates as per SOR, quoted by the contractor.

(II) Rate of the item, which shall be derived as follows:

Based on rates of machine and labor as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).

In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labor plus 15% to cover contractor's supervision profit, overhead & other expenses.



42. VENDOR PERFORMANCE EVALUATION PROCEDURE

Shall be as stipulated Annexure II to ITB herewith.

43. INCOME TAX & CORPORATE TAX

43.1. Income tax deduction shall be made from all payments made to the contractor as per the rules and regulations in force and in accordance with the Income Tax Act prevailing from time to time.

43.2. Corporate Tax liability, if any, shall be to the contractor's account.

43.3. Work Contract tax/VAT as may be applicable shall be deducted as per trade tax.

43.4. MENTIONING OF PAN NO. IN INVOICE/BILL

As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfilment of above requirement.

44. SETTLEMENT OF DISPUTES BETWEEN GOVERNMENT DEPARTMENT AND ANOTHER AND ONE GOVERNMENT DEPARTMENT AND PUBLIC ENTERPRISE AND ONE PUBLIC ENTERPRISE AND ANOTHER

In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitrator under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary / Additional Secretary, when so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

45. DISPUTE RESOLUTION(ADDENDUM TO PROVISION REGARDING APPLICABLE LAWS AND SETTLEMENT OF DISPUTES OF GCC)

45.1. Brahma Putra Cracker and Polymer Limited has framed the Conciliation Rules 2010 in conformity with supplementary to Part – III of the Indian Arbitration and Conciliation Act 1996 for speedier, cost effective and amicable settlement of disputes through conciliation. A copy of the said rules made available on GAIL's web site/BCPL's website: www.gailonline.com/ www.bcplonline.com for reference.



Unless otherwise specified, the matters where decision of the Engineer-in-Charge is deemed to be final and binding as provided in the Agreement and the issues/disputes which cannot be mutually resolved within a reasonable time, all disputes shall be settled in accordance with the Conciliation Rules 2010.

- 45.2. Any dispute(s)/difference(s)/issue(s) of any kind whatsoever between/amongst the Parties arising under/out of/in connection with this contract shall be settled in accordance with the aforesaid rules.
- 45.3. In case of any dispute(s)/difference(s)/issue(s), a Party shall notify the other Party (ies) in writing about such a dispute(s) / difference(s) / issue(s) between / amongst the Parties and that such a Party wishes to refer the dispute(s)/difference(s)/issue(s) to Conciliation. Such Invitation for Conciliation shall contain sufficient information as to the dispute(s)/difference(s)/issue(s) to enable the other Party (ies) to be fully informed as to the nature of the dispute(s)/difference(s)/issue(s), the amount of monetary claim, if any, and apparent cause(s) of action.
- 45.4. Conciliation proceedings commence when the other Party(ies) accept(s) the invitation to conciliate and confirmed in writing. If the other Party (ies) reject(s) the invitation, there will be no conciliation proceedings.
- 45.5. If the Party initiating conciliation does not receive a reply within thirty days from the date on which he/she sends the invitation, or within such other period of time as specified in the invitation, he/she may elect to treat this as a rejection of the invitation to conciliate. If he/she so elects, he/she shall inform the other Party(ies) accordingly.
- 45.6. Where Invitation for Conciliation has been furnished, the Parties shall attempt to settle such dispute(s) amicably under Part-III of the Indian Arbitration and Conciliation Act, 1996 and Brahmputra Cracker and Polymer Limited Conciliation Rules, 2010. It would be only after exhausting the option of Conciliation as an Alternate Dispute Resolution Mechanism that the Parties hereto shall go for Arbitration. For the purpose of this clause, the option of 'Conciliation' shall be deemed to have been exhausted, even in case of rejection of 'Conciliation' by any of the Parties.
- 45.7. The cost of Conciliation proceedings including but not limited to fees for Conciliator(s), Airfare, Local Transport, Accommodation, cost towards conference facility etc. shall be borne by the Parties equally.
- 45.8. The Parties shall freeze claim(s) of interest, if any, and shall not claim the same during the pendency of Conciliation proceedings. The Settlement Agreement, as and when reached/agreed upon, shall be signed between the Parties and Conciliation proceedings shall stand terminated on the date of the Settlement Agreement.

46. BILLING SYSTEM

ORIGINAL Bills/Invoices to be forwarded in sealed envelope for release of payment in time and following should be clearly mentioned on "top left corner of the envelope" with "address" as under:

(a) Top left corner of the envelope

Vendor Code: _____

LOA/PO No.: Date

Bill/ Invoice No.: Date

Invoice Value: Rs. Indenting Dept. Job/Supply of.....



(b) Address:
To,

In case of LOA/Contract	In case of PO
HOD/EIC (Indenting/User Department) M/s Brahmaputra Cracker and Polymer Limited (A Government of India Enterprise), Administrative Building, PO: Lepetkata, Dist.: DIBRUGARH, Assam, Pin Code:786006, Phone no. 0373 2914636.	HOD (C&P) M/s Brahmaputra Cracker and Polymer Limited (A Government of India Enterprise), Administrative Building, PO: Lepetkata, Dist.: DIBRUGARH, Assam, Pin Code:786006, Phone no. 0373 2914636.

47. TRANSPARENCY

Bidders if so desires, may seek in writing the reason for rejection of their bid, to which BCPL shall respond quickly.

48. SALE OF BID DOCUMENTS

Tender document will be sold on receipt of application. No tender document will, however, be sold / issued to the bidders who are on 'Holiday' by GAIL/BCPL or Public Sector Project Management Consultant (like EIL, Mecon etc. only due to "poor performance" or "corrupt and fraudulent practices") or banned by Government department/ Public Sector on due date of submission of bid. If the document were issued inadvertently/ downloaded from website, offers submitted by such bidder shall not be considered for opening / evaluation / award and will be returned immediately to such bidder. The above is without prejudice to the other rights of BCPL.

49. SUBLETTING & ASSIGNMENT

- 49.1. The contractor shall not, save with previous consent in writing of the Engineer-in-charge, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

However, Subletting of WHOLE WORKS is prohibited. An undertaking to this effect will be given by Vendor/Contractor along with each invoice/ bill. In addition to above, clause no. 37.0 of GCC also to be referred.

50. DIRECT PAYMENTS TO SUB-VENDORS / SUPPORTING AGENCIES OF MAIN CONTRACTOR

- 50.1. Normally, the payment is to be made to vendor/contractor only as per provision of contract. During execution, in case of financial constraints, BCPL may make direct payment to their sub-vendor / supporting agencies as an exception from the amounts due to the vendors/contractors from any of their bills under process upon certification by EIC subject to receipt of such request from the vendor/contractor. Further, the request for direct payments to the sub-vendor / sub-contractor shall be considered in performance evaluation of such vendor/ contractor.

51. CHECK MEASUREMENT

- 1.1 Measurement shall be recorded as per the methods of measurement spelt out in



SOW/ SOR /Specifications/SCC of Contract/Tender Document in conjunction with IS: 1200.

The responsibility for checking the measurements as recorded in the measurement Books/Bills shall be as under:

- 51.1. Where BCPL Executive is Engineer-In-Charge (EIC) (e.g O&M Contracts)
 - a. Site-In-Charge/Site Engineer will check 100% measurements of executed work.
 - b. EIC will further check measurements at least 15% of bill value. In case, Site-in-Charge/Site Engineer is not available, EIC will check 100% measurements of executed work.
 - c. An officer one level above EIC but not below level of HOD will check measurements of 5% of bill value. In case, HOD is EIC, then he will check measurements of 20% of bill value.
- 51.2. Where PMC is EIC (e.g Project Construction):
 - a. PMC will check 100% measurements of executed work.
 - b. BCPL Site Engineer will check measurements of at least 15% of bill value, certified by PMC.
 - c. An officer one level above Site Engineer but not below level of DGM will further check measurements of 5% of bill value. However, wherever DGM is not available, an officer of level of CM will check measurements of 5% of bill value.
- 51.3. Where BCPL Executive is EIC and where Third Party Inspector is deployed (e.g ARC type Construction Contracts):
 - a. Third Party Inspector will check 100% measurements of executed work.
 - b. BCPL Site Engineer will check measurements of at least 10% of bill value, certified by Third Party Inspector.
 - c. EIC will further check measurements of 5% of bill value. In case, there is no Site Engineer, EIC himself will check measurements of 15% of bill value.
 - d. An officer one level above EIC but not below level of HOD (for O&M Cases) and DGM (for Project Cases) will check measurements of 5% of bill value. In case, HOD (for O&M Cases) and DGM (for Project Cases) is EIC, then he will check measurements of 10% of bill value or measurement of 20% of bill value, in case there is no Site Engineer.
- 51.4. OIC (or HOD in case of Corporate Office) or an officer of higher level to that of EIC authorized by OIC may carry out random checking of executed items where the executed quantity exceed SOR quantities.
- 51.5. While exercising test check of 5%, 15% level and on random basis as above, it may be ensured that high rate items, AHR items, items exceeding SOR quantity and concealed items have been covered in the items selected for checking.
- 51.6. The Superior officer should preferably check such items/quantities other than those already checked by BCPL executives at lower levels and should also ensure that the subordinate officer/officers have exercised the requisite percentage check as stipulated in the procedure.
- 51.7. All concerned officers should indicate the measurements of SOR items checked by them and marked as "Checked and verified."
52. Wherever any portion of the "GCC" is repugnant to or at variance with any provision(s) of the "SCC", unless a different intention appears, the provision(s) of the



"SCC" shall be deemed to override the provision(s) of "GCC", and shall to the extent of such repugnancy or variations prevail.

53. Wherever there is contradiction with respect to terms of 'Integrity pact', GCC and 'Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice', the provisions of 'Procedure for action in case of Corrupt/Fraudulent/Collusive/Coercive Practice' shall prevail.

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**PROCEDURE FOR ACTION IN CASE
CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES**

A. Definitions:

- A.1 “Corrupt Practice” means the offering, giving, receiving or soliciting, directly or indirectly, anything of value to improperly influence the actions in selection process or in contract execution.
- “Corrupt Practice” also includes any omission for misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
- A.2 “Fraudulent Practice” means and include any act or omission committed by a agency or with his connivance or by his agent by misrepresenting/ submitting false documents and/ or false information or concealment of facts or to deceive in order to influence a selection process or during execution of contract/ order.
- A.3 “Collusive Practice amongst bidders (prior to or after bid submission)” means a scheme or arrangement designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- A.4 “Coercive practice” means impairing or harming or threatening to impair or harm directly or indirectly, any agency or its property to influence the improperly actions of an agency, obstruction of any investigation or auditing of a procurement process.
- A.5 “Vendor/Supplier/Contractor/Consultant/Bidder” is herein after referred as “Agency”
- A.6 “Appellate Authority” shall mean Committee of Directors consisting of Director (Finance) and Director (BD) for works centers under Director (Projects). For all other cases committee of Directors shall consist of Director (Finance) & Director (Projects).
- A.7 “Competent Authority” shall mean the authority, who is competent to take final decision for Suspension of business dealing with an Agency/ ies and Banning of business dealings with Agency/ ies and shall be the “Director” concerned.
- A.8 “Allied Agency” shall mean all the concerns within the sphere of effective influence of banned/ suspended agencies. In determining this, the following factors may be taken into consideration:
- a) Whether the management is common;
 - b) Majority interest in the management is held by the partners or directors of banned/ suspended firm.
 - c) Substantial or majority shares are owned by banned/ suspended agency and by virtue of this it has a controlling voice.
- A.9 “Investigating Agency” shall mean any department or unit of BCPL investigating into the conduct of Agency/ party and shall include the Vigilance Department of the BCPL, Central Bureau of Investigation, State Police or any other agency set up by the Central or state government having power to investigate.



B. Actions against bidder(s) indulging in corrupt /fraudulent/ collusive/ coercive practice

B.1 Irregularities noticed during the evaluation of the bids:

If it is observed during bidding process/ bids evaluation stage that a bidder has indulged in corrupt/fraudulent /collusive/coercive practice, the bid of such Bidder (s) shall be rejected and its Earnest Money Deposit (EMD) shall be forfeited.

Further, such agency shall be banned for future business with BCPL for a period specified in para B 2.2 below from the date of issue of banning order.

B.2 Irregularities noticed after award of contract

(i) During execution of contract:

If an agency, is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, during execution of contract, the agency shall be banned for future business with BCPL for a period specified in para B 2.2 below from the date of issue of banning order.

The concerned order (s)/ contract(s) where corrupt/fraudulent/collusive practices is observed, shall be suspended with immediate effect by Engineer-in-Charge (EIC)/ Employer whereby the supply/ work/ service and payment etc. will be suspended. The action shall be initiated for putting the agency on banning.

After conclusion of process, the order (s)/ contract (s) where it is concluded that such irregularities have been committed shall be terminated and Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall also be forfeited. The amount that may have become due to the contractor on account of work already executed by him shall be payable to the contractor and this amount shall be subject to adjustment against any amounts due from the contractor under the terms of the contract.

No risk and cost provision will be enforced in such cases.

(ii) After execution of contract and during Defect liability period (DLP)/ Warranty/Guarantee Period:

If an agency is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, after execution of contract and during DLP/ Warranty/Guarantee Period, the agency shall be banned for future business with BCPL for a period specified in para B 2.2 below from the date of issue of banning order.

Further, the Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall be forfeited.

(iii) After expiry of Defect liability period (DLP)/ Warranty/Guarantee Period

If an agency is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, after expiry of Defect liability period (DLP)/ Warranty/Guarantee Period, the agency shall be banned for future business with BCPL for a period specified in para B 2.2 below from the date of issue of banning order.



B.2.2 Period of Banning

Banning period shall be reckoned from the date of banning order and shall be 3 years.

In exceptional cases where the act of vendor/ contractor is a threat to the National Security, the banning shall be for indefinite period.

C. Effect of banning on other ongoing contracts/ tenders

- C.1 If an agency is put on Banning, such agency should not be considered in ongoing tenders/future tenders.
- C.2 However, if such an agency is already executing other order (s)/ contract (s) where no corrupt/fraudulent/ collusive/coercive practice is found, the agency should be allowed to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract.
- C.3 If an agency is put on the Banning List during tendering and no irregularity is found in the case under process:
- C.3.1 After issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- C.3.2 After opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- C.3.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated. If the agency is put on banning list for fraud/ mis-appropriation of facts committed in the same tender/other tender where errant agency emerges as the lowest (L1), then such tender shall also be cancelled and re-invited.

D. Procedure for Suspension of Bidder

D.1 Initiation of Suspension

Action for suspension business dealing with any agency/(ies) shall be initiated by Corporate C&P Department when

- (i) Corporate Vigilance Department based on the fact of the case gathered during investigation by them recommend for specific immediate action against the agency.
- (ii) Corporate Vigilance Department based on the input from Investigating agency, forward for specific immediate action against the agency.
- (iii) Non-performance of Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order.

D.2 Suspension Procedure:

- D.2.1 The order of suspension would operate initially for a period not more than six months and is to be communicated to the agency and also to Corporate Vigilance Department. Period of suspension can be extended with the approval of the Competent Authority by one month at a time with a ceiling of six months pending a conclusive decision to put the agency on banning list.
- D.2.2 During the period of suspension, no new business dealing may be held with the agency.



- D.2.3 Period of suspension shall be accounted for in the final order passed for banning of business with the agency.
- D.2.4 The decision regarding suspension of business dealings should also be communicated to the agency.
- D.2.5 If a prima-facie, case is made out that the agency is guilty on the grounds which can result in banning of business dealings, proposal for issuance of suspension order and show cause notice shall be put up to the Competent Authority. The suspension order and show cause notice must include that (i) the agency is put on suspension list and (ii) why action should not be taken for banning the agency for future business from BCPL.

The competent authority to approve the suspension will be same as that for according approval for banning.

D.3 Effect of Suspension of business:

Effect of suspension on other on-going/future tenders will be as under:

- D.3.1 No enquiry/bid/tender shall be entertained from an agency as long as the name of agency appears in the Suspension List.
- D.3.2 If an agency is put on the Suspension List during tendering:
- D.3.2.1 After issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- D.3.2.2 After opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- D.3.2.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated. If the agency is put on Suspension list for fraud/ mis-appropriation of facts conducted in the same tender/other tender where errant agency emerges as the lowest (L1), then such tender shall also be cancelled and re-invited.
- D.3.3 The existing contract (s)/ order (s) under execution shall continue.
- D.3.4 Tenders invited for procurement of goods, works and services shall have provision that the bidder shall submit a undertaking to the effect that (i) neither the bidder themselves nor their allied agency/(ies) are on banning list of GAIL/BCPL or the Ministry of Petroleum and Natural Gas and (ii) bidder is not banned by any Government department/ Public Sector.

E. Appeal against the Decision of the Competent Authority:

- E.1 The agency may file an appeal against the order of the Competent Authority for putting the agency on banning list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the receipt of banning order.
- E.2 Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
- E.3 Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.



- F. Wherever there is contradiction with respect to terms of 'Integrity pact', GCC and 'Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice', the provisions of 'Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice' shall prevail.

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**PROCEDURE FOR EVALUATION OF PERFORMANCE OF VENDORS/
SUPPLIERS/ CONTRACTORS/ CONSULTANTS**

1.0 OBJECTIVE

The objective of Evaluation of Performance aims to recognize, and develop reliable Vendors/ Suppliers/Contractors/ Consultants so that they consistently meet or exceed expectations and requirements.

The purpose of this procedure is to put in place a system to monitor performance of Vendors/ Suppliers/Contractors/ Consultants associated with BCPL in Projects and in O&M so as to ensure timely completion of various projects, timely receipt of supplies including completion of works & services for operation and maintenance of operating plants and quality standards in all respects.

2.0 METHODOLOGY

i) Preparation of Performance Rating Data Sheet

Performance rating data Sheet for each and every Vendor/ Supplier/Contractor/ Consultant for all orders/Contracts with a value of Rs. 7 Lakhs and above is recommended to be drawn up. These data sheets are to be separately prepared for orders/ contracts related to Projects and O&M. Format, Parameters, Process, responsibility for preparation of Performance Rating Data Sheet are separately mentioned.

ii) Measurement of Performance

Based on the parameters defined in Data Sheet, Performance of concerned Vendor/ Supplier/Contractor/ Consultant would be computed and graded accordingly. The measurement of the performance of the Party would be its ability to achieve the minimum scoring of 60% points in the given parameters.

iii) Initiation of Measures:

Depending upon the Grading of Performance, corrective measures would be initiated by taking up the matter with concerned Vendor/ Supplier/Contractor/ Consultant. Response of Vendor/ Supplier/Contractor/ Consultant would be considered before deciding further course of action.

iv) Implementation of Corrective Measures:

Based on the response of Vendor/ Supplier/Contractor/ Consultant, concerned Engineer-in-Charge for the Projects and/or OIC in case of O&M would recommend for continuation or discontinuation of such party from the business of BCPL.

v) Orders/contracts placed on Proprietary/OEM basis for O&M will be evaluated and, if required, corrective action will be taken for improvement in future.



3.0 PROCESS OF EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS

3.1. FOR PROJECTS

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of PROJECTS shall be done immediately with commissioning of any Project.
- ii) On commissioning of any Project, EIC (Engineer-in-charge)/ Project-in-charge shall prepare a Performance Rating Data Sheet (Format at Annexure-1) for all Orders and Contracts.
- iii) Depending upon the Performance Rating, following action need to be initiated by Engineer-in-charge/Project-in-charge:

Sl.No.	Performance Rating	Action
1	POOR	Seek explanation for Poor performance
2	FAIR	Seek explanation for Fair performance
3	GOOD	Letter to the concerned for improving performance in future
4	VERY GOOD	No further action

- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
- v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:

(A) Where Performance rating is “POOR”:

Recommend such defaulting Vendor/ Supplier/Contractor/ Consultant for putting on Holiday for a period from one to three years as given below:

- (i) Poor Performance due to reasons other than Quality : **One Year**
- (ii) Poor Performance on account of Quality (if any mark obtained against Quality parameter is less than 30): **Two Years**
- (iii) Poor Performance leading to termination of contract or Offloading of contract due to poor performance solely attributable to Vendor/ Supplier/Contractor/ Consultant or Repeated Offence: **Three Years**

Non-performance of a Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order, such Vendor/ Supplier/ Contractor/Consultant are also to be considered for Suspension.

In all such cases, concerned site will put up recommendation for issuance of SCN and putting the party on suspension list as per process



defined for suspension in “Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices”

(B) Where Performance rating is “FAIR”:

Recommend for issuance of warning to such defaulting Vendor/ Supplier/Contractor/ Consultant to improve their performance.

3.2. FOR CONSULTANCY JOBS

Monitoring and Evaluation of consultancy jobs will be carried out in the same way as described in para 3.1 for Projects.

3.3. FOR OPERATION & MAINTENANCE

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of Operation and Maintenance shall be done immediately after execution of order/ contract.
- ii) After execution of orders a Performance Rating Data Sheet (Format at Annexure-2) shall be prepared for Orders by Site C&P and for Contracts/Services by respective Engineer-In-Charge.
- iii) Depending upon Performance Rating, following action need to be initiated by Site C&P:

Sl. No.	Performance Rating	Action
1	POOR	Seek explanation for Poor performance
2.	FAIR	Seek explanation for Fair performance
3	GOOD	Letter to the concerned for improving performance in future.
4	VERY GOOD	No further action

- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
- v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:

A) Where performance rating is “POOR”

Recommend such defaulting Vendor/Supplier/Contractor/ Consultant for putting on Holiday for a period from one to three years as given below:

- (i) Poor Performance due to reasons other than Quality : **One Year**
- (ii) Poor Performance on account of Quality (if any mark obtained against Quality parameter is less than 30): **Two Years**
- (iii) Poor Performance leading to termination of contract or Offloading of contract due to poor performance solely attributable to Vendor/Supplier/Contractor/Consultant or Repeated Offence: **Three Years**



Non-performance of a Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order such Vendor/ Supplier/ Contractor/Consultant are also to be considered for Suspension.

In all such cases, concerned site will put up recommendation for issuance of SCN and putting the party on suspension list as per process defined for suspension in “Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices”

(B) Where Performance rating is “FAIR”

Recommend for issuance of warning to such defaulting Vendors/Contractors/Consultants to improve their performance.

4.0 EXCLUSIONS:

The following would be excluded from the scope of evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants:

- i) Orders/Contracts below the value of Rs. 7 Lakhs.
- ii) One time Vendor/ Supplier/Contractor/ Consultant.
- iii) Orders for Misc./Administrative items/ Non stock Non valued items.

However, concerned Engineer-in-Charge /OICs will continue to monitor such cases so as to minimize the impact on Projects/O&M plants due to non-performance of Vendors/ Suppliers/Contractors/ Consultants in all such cases.

5.0 REVIEW & RESTORATION OF PARITES PUT ON HOLIDAY

5.1 An order for Holiday passed for a certain specified period shall deemed to have been automatically revoked on the expiry of that specified period and it will not be necessary to issue a specific formal order of revocation.

Further, in case Vendor/ Supplier/Contractor/ Consultant is put on holiday due to quality, and new order is placed on bidder after restoration of Vendor/ Supplier/Contractor/ Consultant, such order will be properly monitored during execution stage by the concerned site.

6.0 EFFECT OF HOLIDAY

6.1 If a Vendor/Supplier/Contractor/Consultant is put on Holiday, such Vendor/ Supplier/Contractor/Consultant should not be considered in ongoing tenders/future tenders.

6.2 However, if such Vendor/ Supplier/Contractor/ Consultant is already executing any other order/ contract and their performance is satisfactory in terms of the relevant contract, should be allowed to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract. In such a case CPBG will not be forfeited and payment will be made as per provisions of concerned contract. However, this would be without prejudice to other terms and conditions of the contract.

6.3. Effect on other ongoing tendering:

6.3.1 After issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the party shall be ignored.



6.3.2 After opening Technical bid but before opening the Price bid, the Price bid of the party shall not be opened and BG/EMD submitted by the party shall be returned to the party.

6.3.3 After opening of price, BG/EMD made by the party shall be returned; the offer of the party shall be ignored & will not be further evaluated. If errant party emerges as the lowest (L1), then such tender shall also be cancelled and re-invited.

7.0 While putting the Vendor/ Supplier/Contractor/ Consultant on holiday as per the procedure, the holding company, subsidiary, joint venture, sister concerns, group division of the errant Vendor/ Supplier/Contractor/ Consultant shall not be considered for putting on holiday list.

Any bidder, put on holiday, will not be allowed to bid through consortium route also in new tender during the period of holiday.

8.0 If an unsuccessful bidder makes any vexatious, frivolous or malicious complaint against the tender process with the intention of delaying or defeating any procurement or causing loss to BCPL or any other bidder, such bidder will be put on holiday for a period of six months, if such complaint is proved to be vexatious, frivolous or malicious, after following the due procedure.

9.0 APPEAL AGAINST THE DECISION OF THE COMPETENT AUTHORITY:

- (a) The party may file an appeal against the order of the Competent Authority for putting the party on Holiday list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the receipt of Holiday order.
- (b) Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
- (c) Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.
- (d) “Appellate Authority” shall mean Committee of Directors consisting of Director (Finance) and Director (BD) for works centers under Director (Projects). For all other cases committee of Directors shall consist of Director (Finance) & Director (Projects).

10.0 ERRANT BIDDER

In case after price bid opening the lowest evaluated bidder (L1) is not awarded the job for any mistake committed by him in bidding or withdrawal of bid or modification of bid or varying any term in regard thereof leading to re-tendering, BCPL shall forfeit EMD paid by the bidder and such bidders shall be debarred from participation in re-tendering of the same job(s)/item(s).

Further, such bidder will be put on ‘holiday’ for a period of six months after following the due procedure.

11.0 In case Service Tax department brings to the notice of BCPL that a Party has not paid to the credit of the Government the Service Tax collected from BCPL, then party will be put on holiday for a period of six months after following the due procedure.



**BRAHMAPUTRA CRACKER AND POLYMER LIMITED
PERFORMANCE RATING DATA SHEET
(FOR PROJECTS/ CONSULTANCY JOBS)**

- i) Project/Work Centre :
ii) Order/ Contract No. & date :
iii) Brief description of Items :
Works/Assignment
iv) Order/Contract value (Rs.) :
v) Name of Vendor/Supplier/ :
Contractor/ Consultant
vi) Contracted delivery/ :
Completion Schedule
vii) Actual delivery/ :
Completion date

Performance Parameter	Delivery/ Completion Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated				

Note:

Remarks (if any)

PERFORMANCE RATING (**)

Note:

(#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance.

(*) Allocation of marks should be as per enclosed instructions

(**) Performance rating shall be classified as under:

Sl.No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of
Authorised Signatory:

Name:

Designation:



Instructions for allocation of marks

1. Marks are to be allocated as under:

1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks

Delivery Period/ Completion Schedule	Delay in Weeks	Marks
a) Up to 3 months	Before CDD	40
	Delay up to 4 weeks	35
	Delay up to 8 weeks	30
	Delay up to 10 weeks	25
	Delay up to 12 weeks	20
	Delay up to 16 weeks	15
	More than 16 weeks	0
b) Above 3 months	Before CDD	40
	Delay up to 4 weeks	35
	Delay up to 8 weeks	30
	Delay up to 10 weeks	25
	Delay up to 16 weeks	20
	Delay up to 20 weeks	15
	Delay up to 24 weeks	10
	More than 24 weeks	0

1.1 QUALITY PERFORMANCE 40 Marks

For Normal Cases: No Defects/ No Deviation/ No failure: 40 marks

i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system	Failure of severe nature - Moderate nature - low severe nature	0 marks 5 marks 10-25 marks
iii) Number of deviations	1. No deviation 2. No. of deviations ≤ 2 3. No. of deviations > 2	5 marks 2 marks 0 marks



1.3 RELIABILITY PERFORMANCE

20 Marks

A.	FOR WORKS/CONTRACTS	
i)	Submission of order acceptance, agreement, PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Check-list points	4 marks
iv)	Compliance to statutory and HS&E requirements or Reliability of Estimates/Design/Drawing etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
B.	FOR SUPPLIES	
i)	Submission of order acceptance, PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after sales service/ warranty repairs and/ or query/ advice (upto the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents including Test Certificates at the time of supply	5 marks



**BRAHMAPUTRA CRACKER AND POLYMER LIMITED
PERFORMANCE RATING DATA SHEET
(FOR O&M)**

- i) Location :
- ii) Order/ Contract No. & date :
- iii) Brief description of Items :
Works/Assignment
- iv) Order/Contract value (Rs.) :
- v) Name of Vendor/Supplier/ :
Contractor/ Consultant
- vi) Contracted delivery/ :
Completion Schedule
- vii) Actual delivery/ :
Completion date

Performance Parameter	Delivery/ Completion Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated				

Note:

Remarks (if any)

PERFORMANCE RATING (**)

Note:

(#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance.

(*) Allocation of marks should be as per enclosed instructions

(**) Performance rating shall be classified as under:

Sl.No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of
Authorised Signatory:

Name:

Designation:



Instructions for allocation of marks (For O&M)

1. Marks are to be allocated as under:

1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks

Delivery Period/ Completion Schedule	Delay in Weeks	Marks
a) Up to 3 months	Before CDD	40
	Delay up to 4 weeks	35
	Delay up to 8 weeks	30
	Delay up to 10 weeks	25
	Delay up to 12 weeks	20
	Delay up to 16 weeks	15
	More than 16 weeks	0
b) Above 3 months	Before CDD	40
	Delay up to 4 weeks	35
	Delay up to 8 weeks	30
	Delay up to 10 weeks	25
	Delay up to 16 weeks	20
	Delay up to 20 weeks	15
	Delay up to 24 weeks	10
	More than 24 weeks	0

1.1 QUALITY PERFORMANCE 40 Marks

For Normal Cases: No Defects/ No Deviation/ No failure: 40 marks

i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system	Failure of severe nature - Moderate nature - low severe nature	0 marks 5 marks 10-25 marks
iii) Number of deviations	1. No deviation 2. No. of deviations ≤ 2 3. No. of deviations > 2	5 marks 2 marks 0 marks



1.3 RELIABILITY PERFORMANCE

20 Marks

A.	FOR WORKS/CONTRACTS	
i)	Submission of order acceptance, agreement, PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Check-list points	4 marks
iv)	Compliance to statutory and HS&E requirements or Reliability of Estimates/Design/Drawing etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
B.	FOR SUPPLIES	
i)	Submission of order acceptance, PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after sales service/ warranty repairs and/ or query/ advice (upto the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents including Test Certificates at the time of supply	5 marks



(INSTRUCTIONS FOR PARTICIPATION IN E-TENDER)

(Ready Reckoner to Participate in BCPL e-tender through CPP Portal of NIC)

1. General:

This section contains detailed instructions regarding bid submission procedure under BCPL's e-tender under NIC CPP Portal system. Bidders are required to read the following instructions in addition to various instructions mentioned elsewhere in the bid document for e-tendering, Ready Reckoner and FAQs etc. The instructions mentioned herein related to bid submission procedure shall supersede and shall prevail over the conditions enumerated elsewhere in the bid/tender document.

Bidders who wish to participate in e-tenders must go through the following in BCPL website in tender section:-

- 1) **“Guideline for Bidder enrolment process to Participate in BCPL e-tender through CPP Portal of NIC”.**
- 2) **“Ready Reckoner to Participate in BCPL e-tender through CPP Portal of NIC.**
- 3) **“Bidder Manual Kit”**

which contains instructions in respect of e-Tendering essentially covering security settings required for bidder's PC / Laptop, uploading and checking the status of digital signature in the bidder's PC / Laptop, obtaining unique login ID and password, re-setting the password, downloading of Tender document and uploading of Offer/Bid etc. Further, the troubleshooting issues are also available in the form of FAQs (link given in website) which can be downloaded from E-Tender Portal (<https://eprocure.gov.in/eprocure/app>).

2. About E-Tender Portal (Web):

BCPL's e-tender under NIC CPP Portal system enabling bidders to Search, View, Download tender document(s) directly from the portal <https://eprocure.gov.in/cppp/> (referred hereunder as “E-Tender Portal”) and also enables the bidders to participate and submit online prices directly in the e-tender portal or uploading of SOR/Price Schedule (Price Bid) in note and attachment folder, as applicable and technical bids in secured and transparent manner maintaining absolute confidentiality and security throughout the tender evaluation process and award.

3. Pre-requisite for participation in bidding process:

The following are the pre-requisite for participation in e-Tendering Process:

3.1 PC/Laptop with Windows OS, Internet Explorer:

Bidder must possess a PC / Laptop with Windows 7 professional operating system and Internet Explorer 9 or above for hassle free bidding. Bidder must go through the system



setting as mentioned in Resources required (go to <https://eprocure.gov.in/eprocure/app> → click downloads → click resources) and also refer Trouble Shooting (go to <https://eprocure.gov.in/eprocure/app> → click bidder Manual kit → click Trouble shooting).

3.2 Internet Broadband Connectivity:

The Bidder must have a high speed internet connectivity (preferably Broadband) to access NIC Portal for downloading the Tender document and uploading/submitting the Bids.

3.3 A valid e-mail Id of the Organization/Firm:

Bidder must possess an e-mail ID, preferably of the Organisation (in case of a company)/Individual (in case of proprietorship concern)/Partner having Power of Attorney (in case of a partnership firm) to create login ID. The e-mail ID should not be changed frequently. All communication related to e-tendering including system generated mails shall be sent on this e-mail Id only. The communication to bidder is fully automated through the system and hence email-ID of bidder is very important for online communication with bidder during various stages of tendering process and should be preferably common e-mail Id of the Organisation.

3.4 User ID and Password for new Bidder(s):

To participate in the bidding process, it is mandatory on the part of bidder(s) to have user ID and password. Without user ID (Login ID) and password, bidders cannot participate in e-tender. There will be single login ID for a bidder/vendor code. To obtain User ID and Password Vendor/Bidder must visit <https://eprocure.gov.in/eprocure/app> site and perform the following steps:

- i) Click on Online bidder enrolment (For new Bidders)
- ii) Fill the on line self-registration form and submit. Ensure that the e-mail address given in the form is valid and active.
- iii) Ensure that all the mandatory fields (identified with a * mark) are filled in the self-registration form for User Id creation.

Steps for creating user id & Password is available in file name “steps by steps guide for online Bidder enrolment process” in BCPL website.

3.5 Procedure for change of E-mail ID of the Bidder:

Login E-Mail ID cannot be changed.

3.6 About Digital Signature:

(I) What is a Digital Signature?



This is a unique digital code which can be transmitted electronically and primarily identifies a unique sender. The objective of digital signature is to guarantee that the individual sending the message is who he or she really claims to be just like the written signature. The Controller of Certifying Authorities of India (CCA) has authorized certain Certifying Authorities (CA) to issue Digital Certificates. Digitally signed documents are legally valid as per the Indian IT Act 2000. One Digital Certificate is valid for a specified period and can be used for digitally signing any number of documents. For details go to <https://eprocure.gov.in/eprocure/app> → click Information about DSC.

Only Class 3b Digital Signature is acceptable where individual are using their digital signature on behalf of the organization and digital signature should be in the name of authorized signatory who has signed the bid on behalf of bidder.

(II) Why Digital Signature is required?

In order to bid for NIC e-tenders, bidders are required to obtain a legally valid Digital Certificate as per Indian IT Act 2000 from the licensed Certifying Authorities (CA) operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

(III) How to obtain Digital Signatures from Certifying Authority (CA)?

Valid Digital Certificate (class 3b) can be obtained from Certifying Agency (C.A). Information about CA's can be obtained through CCA India website (<http://www.cca.gov.in>).

Digital Signatures can be obtained using following steps:

- a) Visit the site of the licensed CA* using internet browser.
- b) Follow the instructions on the CA's website for submission of requisite documents for issue of the Digital Certificate and making payment.

***Links to some of the licensed CA's are provided below:**

1. <http://www.ncodesolutions.com>
2. <http://www.sifycorp.com>
3. <http://www.tcs-ca.tcs.co.in>
4. <http://www.e-mudhra.com>
5. <http://www.nicca.nic.in>
6. www.idrbtca.org.in

For foreign bidder please refer:- <https://eprocure.gov.in/eprocure/app> then click on download – where procedure for obtaining DSC for Foreign Bidders is given.

4. How to submit On-line Bids/Offer electronically against E-tenders?

Bidders who wish to participate against e-tenders uploaded on BCPL's e-tender under NIC CPP Portal website (<https://eprocure.gov.in/cppp/>) (e-tender portal) should follow the steps



Mentioned in the “**Bidders Manual Kit**” available on BCPL website / (go to <https://eprocure.gov.in/eprocure/app> → click Bidder manual kit) which shall guide them to Search, Display/View, Download and Submit electronic Bids/Offer online in a secured manner ensuring confidentiality. Bidder can also download the tender documents from BCPL websites, but they must have to quote through e-mode only (CPP Portal).

5. How to search, view and download e-tender?

Explained in **Bidders Manual Kit** which is available in BCPL website.

8.0 Content of Bid:

8.1 Un-Priced Bid:

The Un-priced Bid - “SOR” (i.e. Part I – Technical Bid, refer ITB of tender for details) to be uploaded using Link “TECHNICAL DOCUMENT”. Bidders are advised to not upload duly filled Schedule of Rates/Price Schedule (Price Bid) at this link. For detailed instructions, **Bidders Manual Kit** which is available in BCPL website for bidders may be referred.

Before the bid is uploaded, the bid comprising of all relevant documents mentioned in the tender document should be digitally signed in accordance with the Indian IT Act 2000. If any modifications are required to be made to a document thereafter the modified documents shall be again digitally signed before uploading.

Bidders are required to upload all Tender forms and supporting documents which form part of the bid/tender under tender document of e-tender portal.

Uploading the documents relevant to bid before the bid submission date and time is the sole responsibility of the bidder. **No Manual/Hard copy** of bid is acceptable. **Bids submitted manually shall be rejected.**

Bidders are required to submit the Earnest Money Deposit (EMD)/Bid Bond in original in the prescribed formats and in the manner prescribed in the tender document at the time of bid submission in sealed envelope.

However, if the bidder is unable to submit EMD/Bid Bond in original on the due date, he may upload scanned copy of the EMD/Bid Bond while submitting the bid electronically, provided the original EMD/Bid Bond, copy of which has been uploaded, is received within 7 (seven) days from the date of unpriced bid opening, failing which the bid will be rejected irrespective of their status / ranking in tender and notwithstanding the fact that a copy.

The complete bid (each page) shall be continuously numbered in sequence, from start till end i.e. 1, 2, 3... n. The bid shall be uploaded along with proper index and indicating page numbers against each category of documents.

Note:



- i) Bidder may save/store the bid documents in the PC/Laptop before submitting the bid into in e-tender portal.
- ii) Bidder is required to fill up the price(s)/rate(s) strictly in the Schedule of Rate (SOR)/Price Schedule attached with the tender.

Inadvertently, if a document is uploaded in by the bidders, such document can be deleted by the bidder and can be replaced by a digitally signed new/modified document prior to due date & time.

Un-priced techno-commercial bid document should be placed in the private area earmarked in the C-folder of Tender Document in e-tender portal.

8.2 Priced Bid:

The Priced Bid (i.e. Part II – Price Bid, refer ITB for details) to be uploaded using “FINANCE ATTACHMENTS” and NOT using link “TECHNICAL DOCUMENT”. Bidders are advised not to upload any other documents and same shall be ignored. For detailed instructions, refer tender document and Ready Reckoner.

BCPL shall not be responsible for any failure on the part of the bidder in submission of Priced Bid and the manner prescribed elsewhere in this instruction sheet in tender documents.

9. E-Tender demo during pre-bid conference:

During the Pre-Bid Conference, BCPL shall also arrange demonstration for submission of bids in e-tender portal for interested bidders.

10. Submission of documents:

Bidders are requested to upload small sized documents preferably (up to 25 MB) at a time to facilitate easy uploading into e-tender portal. BCPL shall not be responsible in case of failure of the bidder to upload documents/bids within specified time of tender submission.

11. Last date for submission of bids:

System does not allow for submission or modification of bids beyond the deadline for bid submission. However, if the bidder for some reason intends to change the bid already entered, he may change/revise the same on or before the last date and time of submission. The system time displayed on NIC's e-tender webpage shall be final and binding on the bidders for all purposes pertaining to various events of the subject tender and no other time shall be taken into cognizance.

Bidders are advised in their own interest to ensure that bids are uploaded in e-tender system well before the closing date and time of bid.

12. Internet connectivity:



If bidders are unable to access BCPL's e-tender under NIC CPP Portal system or Bid Documents, the bidders may please check whether they are using proxy to connect to internet or their PC is behind any firewall and may contact their system administrator to enable connectivity. Please note that Port SSL/443 should be enabled on proxy/firewall for HTTPS connectivity. Dial-up/Broad band internet connectivity without Proxy settings is another option.

13. **Help to Contractors:**

For special instructions to bidders / contractors Please visit <https://eprocure.gov.in/eprocure/app> → click Help to contractors.

14. **FAQ:**

For various frequently asked question Please visit <https://eprocure.gov.in/eprocure/app> → click FAQ.

15. **e-Brochure:**

For e-brochure Please visit <https://eprocure.gov.in/eprocure/app> → click Downloads → click e brochure (details & general).

16. **DSC for Foreign Bidders:**

For DSC for foreign bidders Please visit - <https://eprocure.gov.in/eprocure/app> → click Downloads → click DSC for foreign bidders.

17. **System Malfunction Procedure:**

For system malfunction procedure Please visit - <https://eprocure.gov.in/eprocure/app> → click Downloads → system malfunction procedure.

18. **IT Resources:**

For various IT resources Please visit → <https://eprocure.gov.in/eprocure/app> → click Downloads --- Resources required. (Download Java for system compatibility).

19. **Form for DSC Deactivation for bidders:**

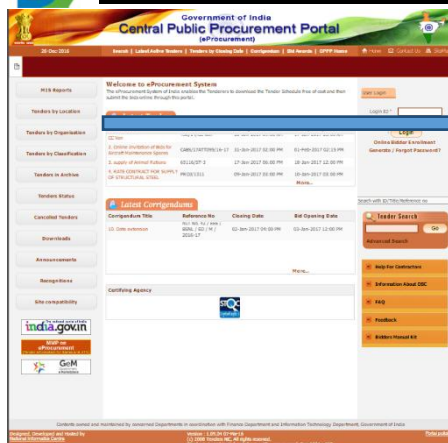
For DSC deactivation Please visit - <https://eprocure.gov.in/eprocure/app> → click Downloads → Form for DSC deactivation for bidders.

20. **Search Tender for Guest Users:**

For tender search Please visit - <https://eprocure.gov.in/eprocure/app> → click on Tenders by Location / Tenders by Organization / Tenders by classifications / Tenders by Archive.



ब्रह्मपुत्रक्रेकरऔरपालीमेरलिमिटेड
(भारतसरकारकाउपक्रम)
Brahmaputra Cracker and Polymer Ltd.
(A Government of India Enterprise)



Tenders by Location

Tenders by Organisation

Tenders by Classification

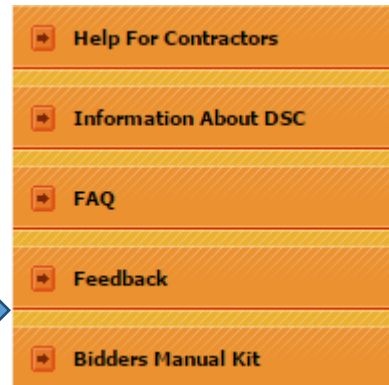
Tenders in Archive



21. Check list / Quick View Summary:

one time activity	1	GET THE DIGITAL SIGNATURE CERTIFICATE	plz. Refer	Please refer clause 3.6 of Ready reckoner to participate in e-tender available in BCPL website	also refe	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click Information about DSC.	
	2	GET THE HARDWARE / IT RESOURCES:- Computer/laptop, Internet etc	plz. Refer	Refer clause 3.1, 3.2, 12 of Ready reckoner to participate in e-tender available in BCPL website	also refe	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click downloads --- click resources required	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- click trouble shooting
	3	GET ENROLLED WITH BCPL e-tender THROUGH CPP PORTAL OF NIC AND TO GET USERID & PASSWORD FOR NEW VENDORS	plz. Refer	Refer Guideline for Bidder enrolment process available in BCPL website	also refe	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- click Registration of Bidders	
	4	UPLOADING OF MY DOCUMENTS	plz. Refer	Bidder can upload their regular documents like PAN, BALANCE SHEET, VAT/CAT and other certificate	also refe	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- click Uploading of my documents	
	5	SEARCH BIDS	plz. Refer	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click tender by location / by organization / by classification	also refe	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- click Clarifications (Tender Status, My Archive...)	
	6	ON LINE e-BID SUBMISSION involved EMD/FEE, technical bid (part I) & finance bid (part II)	plz. Refer	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- go through online e-bid submission	also refe	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- Online e-Bid Submission	
	7	FINANCE BID/PRICE BID/PART II Preparation guidelines	plz. Refer	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- go BoQ Preparation Guidelines			
	8	ON LINE e-BID WITHDRAWAL	plz. Refer	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- go Online Bid Withdrawal			
	9	ON LINE e-BID Re-SUBMISSION	plz. Refer	ROUTE:- https://eprocure.gov.in/cpp pt --- click e-procure --- click bidder manual kit --- go Online Bid Re-submission			

For various queries, manual, FAQs and information may please refer the link
<https://eprocure.gov.in/eprocure/app>



In Help to contractor's users will get: **Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this eProcurement Portal.**

In Information about DSC user will get: **Frequently Asked Questions on Digital Signature Certificate.**

In FAQ user will get various FAQ related to:

- a) GENERAL Q&A about e-procurement.
- b) On line enrolment Q&A
- c) Password related Q&A
- d) DSC related Q&A
- e) Tender related Q&A
- f) Security related Q&A
- g) Foreign bidder related Q&A
- h) User account related Q&A

Feedback: **Users to give their feedback to NIC.**

Bidder manual kit: **Bidder will get various manuals for the following:**

1	Notice to Bidders	notice_to_bidders.pdf
2	Registration of Bidders	bidder_registration.pdf
3	Uploading of My Documents	my_documents.pdf
4	Online e-Bid Submission	two_cover_bid_submission.pdf
		three_cover_bid_submission.pdf
		four_cover_bid_submission.pdf
		single_cover_bid_submission.pdf
5	Online Bid Withdrawal	bid_withdrawal.pdf
6	Online Bid Re-submission	bid_resubmission.pdf
7	Clarifications (Tender Status, My Archive...)	enquiry.pdf
8	Trouble Shooting	troubleshoot_document.pdf
9	BoQ Preparation Guidelines	BoQ_Help_Bidder_ItemRate.pdf



[BoQ_Help_Bidder_ItemWise_Tax.pdf](#)

[BoQ_Help_Bidder_Percentage.pdf](#)

HELP DESK (BCPL)

Phone : 0373-2914582 (only for e-tender queries)

Mobile : 8811017320

Email : etender@bcplindia.co.in

HELP DESK (NIC)

Phone : 1800-233-7315, 0120-4200462, 0120-4001002 (only for e-tender queries)

Mobile : 8826246593

Email : cppp-nic@nic.in

-----X-----



ANNEXURE-IV

BIDDING DATA SHEET (BDS)
ITB TO BE READ IN CONJUNCTION WITH THE FOLLOWING:

A. GENERAL					
ITB clause	Description				
1.2	The Invitation for Bids/ Tender no is : TENDER NO.: BCPL/C&P/LE18W0184ND/90000924				
1.1	The Employer/Owner is: M/s Brahma Putra Cracker & Polymer Limited				
2.1	Name of the Contract: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH				
3	BIDS FROM CONSORTIUM/ JOINT VENTURE <table border="1"><tr><td>APPLICABLE</td><td>☐</td></tr><tr><td>NOT APPLICABLE</td><td>☒</td></tr></table>	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
5.2.1	Demand Draft/ Banker's Cheque towards Tender fee (if applicable) shall be in favour of Brahmaputra Cracker & Polymer Ltd. payable at _____				
B. BIDDING DOCUMENT					
ITB clause	Description				
8.1	For <u>clarification purposes</u> only, the communication address is: Attention: Ms. Neeta Dutta , SM (C&P) Street Address: Brahmaputra Cracker and Polymer Limited (A Government of India Enterprise), C&P Department, Administrative Building, PO: Lepetkata, Distt.: DIBRUGARH, Assam, Pin Code:786006, Phone no. 0373 2914636.Email id: Neeta.dutta@bcplindia.co.in;				



C. PREPARATION OF BIDS

ITB clause	Description
11.1.1 (u)	The Bidder shall submit with its Techno-commercial/ Unpriced bid the following additional documents (SCC Refers): <u>NIL</u>
12	Additional Provision for Schedule of Rate/ Bid Price are as under:
14	The currency of the Bid shall be INR
15	The bid validity period shall be four (4) months from final 'Bid Due Date'.
16	In case 'Earnest Money / Bid Security' is in the form of 'Demand Draft' or 'Banker's Cheque', the same should be favor of Brahmaputra Cracker & Polymer Ltd. , payable at _____

D. SUBMISSION AND OPENING OF BIDS

ITB clause	Description
18	In addition to the original of the Bid, the number of copies required is one. Not applicable in case of e-tendering.
22	The E-Tender No. of this bidding process is: BCPL/C&P/LE18W0184ND/90000924
22.3	For submission of EMD only, the Owner's address is : Attention: Ms. Neeta Dutta , SM (C&P) / Street Address: Brahmaputra Cracker and Polymer Limited (A Government of India Enterprise), C&P Department, Administrative Building, PO: Lepetkata, Distt.: DIBRUGARH, Assam, Pin Code:786006, Phone no. 0373 2914636.Email id: neeta.dutta@bcplindia.co.in;
26	The bid opening shall take place at:



Street Address:

Brahmaputra Cracker and Polymer Limited (A Government of India Enterprise), C&P Department, Administrative Building, PO: Lepetkata,

Distt.DIBRUGARH, Assam, Pin Code:786006, Phone no. 0373

2914636.Email id: neeta.dutta@bcplindia.co.in;

Date: 18.01.2019

Time: 15:00 Hrs.

E. EVALUATION, AND COMPARISON OF BIDS

ITB clause	Description				
32	Evaluation Methodology is mentioned in Annexure-II.				
33	Compensation for Extended Stay: <table><tr><td>APPLICABLE</td><td>☒ NO</td></tr><tr><td>NOT APPLICABLE</td><td>☒ YES</td></tr></table>	APPLICABLE	☒ NO	NOT APPLICABLE	☒ YES
APPLICABLE	☒ NO				
NOT APPLICABLE	☒ YES				

F. AWARD OF CONTRACT

ITB clause	Description						
37	State of which stamp paper is required for Contract Agreement: State: Assam						
38	Contract Performance Security/ Security Deposit <table><tr><td>APPLICABLE</td><td>☒ YES</td></tr><tr><td>NOT APPLICABLE</td><td>☒ NO</td></tr></table> Applicable: As specified in Section –II of tender document.	APPLICABLE	☒ YES	NOT APPLICABLE	☒ NO		
APPLICABLE	☒ YES						
NOT APPLICABLE	☒ NO						
40	Public Procurement Policy for MSEs : <table><tr><td>APPLICABLE</td><td>☒ YES</td></tr><tr><td>NOT APPLICABLE</td><td>☒ NO</td></tr></table> Whether tendered item is non-split able or not-divisible : <table><tr><td>YES</td><td>☒ YES</td></tr></table>	APPLICABLE	☒ YES	NOT APPLICABLE	☒ NO	YES	☒ YES
APPLICABLE	☒ YES						
NOT APPLICABLE	☒ NO						
YES	☒ YES						



	<table border="1"><tr><td></td><td></td></tr><tr><td>NO</td><td>NO</td></tr></table>			NO	NO
NO	NO				
41	Provision of AHR Item : <table border="1"><tr><td>APPLICABLE</td><td>YES</td></tr><tr><td>NOT APPLICABLE</td><td>NO</td></tr></table>	APPLICABLE	YES	NOT APPLICABLE	NO
APPLICABLE	YES				
NOT APPLICABLE	NO				
Clause no. 27.3 of GCC	Bonus for Early Completion: <table border="1"><tr><td>APPLICABLE</td><td>NO</td></tr><tr><td>NOT APPLICABLE</td><td>YES</td></tr></table>	APPLICABLE	NO	NOT APPLICABLE	YES
APPLICABLE	NO				
NOT APPLICABLE	YES				

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फॉर्म और प्रारूप

FORMS & FORMATS



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F-1
BIDDER'S GENERAL INFORMATION

To,
M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

1	Bidder Name (With Contact Person Name & Details)	
2	Status of Firm	Proprietorship Firm/Partnership firm/ Limited/Others If Others Specify: _____ [Enclose certificate of Registration]
3	Name of Proprietor/Partners/Directors of the firm/company	
4	Number of Years in Operation	
5	Address of Registered Office: *In case of Partnership firm, enclose letter mentioning current address of the firm and the full names and current addresses of all the partners of the firm.	City: District: State: PIN/ZIP:
6	Operation Address (if different from above)	City: District: State: PIN/ZIP:
7	Telephone Number [Mobile & Landline]	_____ (Country Code) (Area Code) (Telephone No.)
8	E-mail address	



9	Website	
10	Fax Number:	(Country Code) (Area Code) (Telephone No.)
11	ISO Certification, if any	{ If yes, please furnish details }
12	Bid Currency	
13	Banker's Name	
14	Branch	
15	Bank account number	
16	PAN No.	[Enclose copy of PAN Card]
17	GSTIN	(Please submit copy of GST Registration Certificate)
18	SAC / HSN code	
19	EPF Registration No.	[Enclose copy of EPF Registration Certificate]
20	We (Bidder) are cover under the definition of section 2 (n) of the MSMED Act	Yes / No (If the response to the above is 'Yes', Bidder to provide Purchaser a copy of the Entrepreneurs Memorandum (EM) filled with the authority specified by the respective State Government.)
21 (i)	Whether Micro/Small Enterprise	(Bidder to submit documents as specified it ITB)
21 (ii)	Whether MSE owned by SC/ST	(Bidder to submit documents as specified it ITB)



21 (iii)	UAM No. declared by MSE bidders on CPPP	
22	Type of Entity	Corporate/ Non-Corporate (As per Service tax Act/GST). (In case of Non-Corporate Entity, bidder will submit documentary evidence for same).
23	Vendor Classification as per GST Mark (✓) on the applicable one.	Registered ☐ Un-Registered ☐ Compound Scheme ☐ PSU, GOVT ☐ SEZ ☐

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:



F-2
BID FORM

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

After examining / reviewing the Bidding Documents for the tender of
“_____” including
"Specifications & Scope of Work", "General Conditions of Contract [GCC]", "Special Conditions of
Contract [SCC]" and "Schedule of Rates [SOR]", etc. the receipt of which is hereby duly
acknowledged, we, the undersigned, are pleased to offer to execute the whole part of the job and in
conformity with the said Bid Documents, including Addenda / Corrigenda Nos. _____.

We confirm that this Bid is valid for a period of "three [03] months" from the date of opening of
"Techno-Commercial / Un-priced Bid", and it shall remain binding upon us and may be accepted by
any time before the expiry of that period.

If our Bid is accepted, we will provide the "Contract Performance Security / Security Deposit" as
specified in Section-II of tender document.

Until a final Agreement/Letter of Award is prepared and executed, the tender document (including
addenda/ corrigenda) together with the "Notification of Award" shall constitute a binding Agreement
between us.

We understand that Bidding Document is not exhaustive and any action and activity not mentioned in
Bidding Documents but may be inferred to be included to meet the intend of the Bidding Documents
shall be deemed to be mentioned in Bidding Documents unless otherwise specifically excluded and
we confirm to perform for fulfillment of Agreement and completeness of the Work in all respects
within the time frame and agreed price.

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

Place: [Signature of Authorized Signatory of Bidder]

Date: Name:

Designation:

Seal:

Duly authorized to sign Bid for and on behalf of _____

[Signature of Witness]

Name of Witness:

Address:



F-3
LIST OF ENCLOSURES

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

We are enclosing the following documents as part of the bid:

1. Power of Attorney of the signatory to the Bidding Document.
2. Document showing annual turnover for the last three years such as annual reports, profit and loss account, net worth etc. along with information as sought in enclosed format F-16
3. Document showing Financial Situation Information as sought in enclosed format F-16
4. Copy of Bidding Documents along with addendum/corrigendum duly signed and sealed on each page, in token of confirmation that Bid Documents are considered in full while preparing the bid and in case of award, work will be executed in accordance with the provisions detailed in Bid Documents.
5. Documentary Evidences showing the Bidder's claim of meeting Technical Criteria as mentioned in Clause 4 of ITB.
6. EMD / Bid Bond*
7. Tender Fee*
8. Power of Attorney*
9. Duly certified document from chartered engineer and or chartered accountant.

Note:

* In case of e-bidding the bidder has the option to submit specified documents in physical form on/before the bid due date or within seven days from the bid opening date. However, scanned copy of these (same) documents must be submitted on-line as part of e-bid before the bid due date/time.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



F-4

**PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT
(To be stamped in accordance with the Stamp Act)**

Ref.:-----

Bank Guarantee No.:-----

Date-----

To

BRAHMAPUTRA CRACKER & POLYMER LTD.
“ADMINISTRATIVE BUILDING” LEPETKATA,
NH-37, P.O. LEPETKATA, DIBRUGARH,
ASSAM, PIN – 786 006

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir (s),

In accordance with Letter inviting Tender under your reference No.-----

M/s-----having their Registered/Head
Office at----- (hereinafter called the Tenderer) wish to
participate in the said tender for-----

As an irrevocable Bank Guarantee against Earnest Money Deposit for an amount of -----is required to be
submitted by the Tenderer as a condition precedent for participation in the said Tender which amount in
liable to be forfeited on the happening of any contingencies mentioned in the Tender Document.

We, the -----Bank at-----having our Head Office -
------(Local Address) guarantee and undertake
to pay immediately on demand without any recourse to the tenderers by Brahmaputra Cracker & Polymer
Limited., the amount -----without any
reservation, protest, demur and recourse. Any such demand made by BCPL, shall be conclusive and binding
on us irrespective of any dispute or difference raised by the Tenderer.

This guarantee shall be irrevocable and shall remain, valid up to-----.[this date should be
two (02) months beyond the validity of the bid] If any further extension of this guarantee is required the same
shall be extended to such required period on receiving instructions from M/s-----
----- on whose behalf this guarantee is issued.

In Witness whereof the Bank, through its authorized officer, has set its hand and stamp on this -----
-----day of -----201 ---- at -----

WITNESS:

(SIGNATURE)
(NAME):

(SIGNATURE)
(NAME)
Designation with Bank Stamp

(OFFICIAL ADDRESS):

Attorney as per
Power of Attorney No._____
Date: _____



**INSTRUCTIONS FOR FURNISHING "BID SECURITY / EARNEST MONEY" BY
"BANK GUARANTEE"**

1. The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per "Stamp Duty" applicable. The non-judicial stamp paper should be in the name of the issuing Bank. In case of foreign Bank, the said Bank's Guarantee to be issued by its correspondent Bank in India on requisite non-judicial stamp paper
2. The expiry date should be arrived at in accordance with "ITB: Clause-15.1".
3. The Bank Guarantee by bidders will be given from Bank as specified in "ITB".
4. A letter from the issuing Bank of the requisite Bank Guarantee confirming that said Bank Guarantee / all future communication relating to the Bank Guarantee shall be forwarded to the Employer at its address as mentioned at "ITB".
5. Bidders must indicate the full postal address of the Bank along with the Bank's E-mail / Fax / Phone from where the Earnest Money Bond has been issued.
6. If a Bank Guarantee is issued by a commercial Bank, then a letter to Employer confirming its net worth is more than Rs.1,000,000,000.00 [Rupees One Hundred Crores] or equivalent alongwith documentary evidence.

.....



F-5
LETTER OF AUTHORITY

[Pro forma for Letter of Authority for Attending Subsequent 'Negotiations' / 'Pre-Bid Meetings' / 'Un-priced Bid Opening' / 'Price Bid Opening']

Ref:

Date:

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

I/We, _____ hereby authorize the following representative(s) for attending any 'Negotiations' / 'Meetings [Pre-Bid Meeting]', 'Un-priced Bid Opening', 'Price Bid Opening' and for any subsequent correspondence / communication against the above Bidding Documents:

[1] Name & Designation _____ Signature _____
Phone/Cell: _____
Fax: _____
E-mail: @

[2] Name & Designation _____ Signature _____
Phone/Cell: _____
Fax: _____
E-mail: @

We confirm that we shall be bound by all commitments made by aforementioned authorised representative(s).

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note: This "**Letter of Authority**" should be on the "**letterhead**" of the Firm / Bidder and should be signed by a person competent and having the '**Power of Attorney**' to bind the Bidder. Not more than 'two [02] persons per Bidder' are permitted to attend "Techno-commercial / Un-priced" & "Price Bid" Openings. Bidders authorized representative is required to carry a copy of this authority letter while attending the un-priced and priced bid opening, the same shall be submitted to BCPL.



F-6

"NO DEVIATION" CONFIRMATION

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

We understand that any 'deviation / exception' in any form may result in rejection of Bid. We, therefore, certify that we have not taken any 'exception / deviation' anywhere in the Bid and we agree that if any 'deviation / exception' is mentioned or noticed, our Bid may be rejected.

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:



E-7

DECLARATION REGARDING HOLIDAY/BANNING AND LIQUIDATION, COURT RECEIVERSHIP

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

We hereby confirm that we are not on 'Holiday' by GAIL/BCPL or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices") or banned by Government department/ Public Sector on due date of submission of bid.

Further, we confirm that neither we nor our allied agency/(ies) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on banning list of BCPL/GAIL or the Ministry of Petroleum and Natural Gas.

We also confirm that we are not under any liquidation, court receivership or similar proceedings or 'bankruptcy'.

In case it comes to the notice of BCPL that the bidder has given wrong declaration in this regard, the same shall be dealt as 'fraudulent practices' and action shall be initiated as per the Procedure for action in case of Corrupt/Fraudulent/Collusive/Coercive Practices.

Further, we also confirm that in case there is any change in status of the declaration prior to award of contract, the same will be promptly informed to BCPL by us.

Place: [Signature of Authorized Signatory of Bidder]
Date: Name:
Designation:
Seal:



F-8

CERTIFICATE FOR NON-INVOLVMENT OF GOVT. OF INDIA

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

If we become a successful Bidder and pursuant to the provisions of the Bidding Documents,
award is given to us for the tender for “
_____”, the following Certificate
shall be automatically enforceable:

"We agree and acknowledge that the Employer is entering into the Agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood & agreed that the Government of India is not a party to the Agreement and has no liabilities, obligations or rights thereunder. It is expressly understood and agreed that the Employer is authorized to enter into Agreement, solely on its own behalf under the applicable laws of India. We expressly agree, acknowledge and understand that the Employer is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the Agreement. Accordingly, we hereby expressly waive, release and forego any and all actions or claims, including cross claims, VIP claims or counter claims against the Government of India arising out of the Agreement and covenants not to sue to Government of India as to any manner, claim, cause of action or things whatsoever arising of or under the Agreement."

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



F-9

**PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE
SECURITY / SECURITY DEPOSIT"**
(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

To,
M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

PERFORMANCE GUARANTEE No.

Dear Sir(s),

M/s. _____ having
registered office at _____ (herein after called the “contractor/supplier”
which expression shall wherever the context so require include its successors and assignees)
have been placed/ awarded the job/work of
_____ vide PO/LOA/FOA No.
_____ dated _____ for M/s Brahmaputra Cracker and Polymer
Limited (A Government of India Enterprise), PO: Lepetkata, Distt: DIBRUGARH, Assam.
(herein after called the “BCPL” which expression shall wherever the context so require include
its successors and assignees).

The Contract conditions provide that the SUPPLIER/CONTRACTOR shall pay a sum of Rs.
_____ (Rupees _____) as full
Contract Performance Guarantee in the form therein mentioned. The form of payment of
Contract Performance Guarantee includes guarantee executed by Nationalized Bank/Scheduled
Commercial Bank, undertaking full responsibility to indemnify Brahmaputra Cracker and
Polymer Limited, in case of default.

The said M/s. _____ has approached us and
at their request and in consideration of the premises we having our office at
_____ have agreed to give such guarantee as hereinafter
mentioned.

1. We _____
hereby undertake to give the irrevocable & unconditional guarantee to you that if default
shall be made by M/s. _____ in performing any of
the terms and conditions of the tender/order/contract or in payment of any money payable
to BCPL we shall on first demand pay without demur, contest, protest and/ or without
any recourse to the contractor to BCPL in such manner as BCPL may direct the said
amount of Rupees _____ only or such portion thereof not
exceeding the said sum as you may require from time to time.
2. You will have the full liberty without reference to us and without affecting this
guarantee, postpone for any time or from time to time the exercise of any of the powers
and rights conferred on you under the order/contract with the said
M/s. _____ and to enforce or to forbear from endorsing
any powers or rights or by reason of time being given to the said



- M/s. _____ and such postponement forbearance would not have the effect of releasing the bank from its obligation under this debt.
3. Your right to recover the said sum of Rs. _____ (Rupees _____) from us in manner aforesaid is absolute & unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. _____ and/or that any dispute or disputes are pending before any officer, tribunal or court or arbitrator or any other authority/forum and any demand made by you in the bank shall be conclusive and binding. The bank shall not be released of its obligations under these presents by any exercise by you of its liberty with reference to matter aforesaid or any of their or by reason or any other act of omission or commission on your part or any other indulgence shown by you or by any other matter or changed what so ever which under law would, but for this provision, have the effect of releasing the bank.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said supplier/contractor but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. This guarantee shall be irrevocable and shall remain valid upto _____ (this date should be 90 days after the expiry of defect liability period/ Guarantee period) _____. The bank undertakes not to revoke this guarantee during its currency without your previous consent and further agrees that the guarantee shall continue to be enforceable until it is discharged by BCPL in writing. However, if for any reason, the supplier/contractor is unable to complete the supply/work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the supplier/contractor fails to perform the supply/work fully, the bank hereby agrees to further extend this guarantee at the instance of the supplier/contractor till such time as may be determined by BCPL. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from M/s. _____ (contractor) on whose behalf this guarantee is issued.
6. Bank also agrees that BCPL at its option shall be entitled to enforce this Guarantee against the bank (as principal debtor) in the first instant, without proceeding against the supplier/contractor and notwithstanding any security or other guarantee that BCPL may have in relation to the supplier's/contractor's liabilities.
7. The amount under the Bank Guarantee is payable forthwith without any delay by Bank upon the written demand raised by BCPL. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the exclusive jurisdiction of courts at Guwahati.
8. Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Supplier/Contractor up to a total amount of _____ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Supplier/Contractor to be in default under the order/contract and without caveat or argument, any sum or sums within the limits of (amounts of guarantee) as



aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

9. We have power to issue this guarantee in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney, dated _____ granted to him by the Bank.

Yours faithfully,

Bank by its Constituted Attorney

Signature of a person duly
Authorized to sign on behalf of the
Bank

INSTRUCTIONS FOR FURNISHING
"CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT" BY "BANK
GUARANTEE"

1. The Bank Guarantee by successful Bidder(s) will be given on non-judicial stamp paper as per 'stamp duty' applicable. The non-judicial stamp paper should be in name of the issuing bank. In case of foreign bank, the said Bank Guarantee to be issued by its correspondent bank in India on requisite non-judicial stamp paper and place of Bid to be considered as Delhi.
2. The Bank Guarantee by Bidders will be given from bank as specified in Tender.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Employer.
4. If a Bank Guarantee is issued by a commercial bank, then a letter to Employer and copy to Consultant (if applicable) confirming its net worth is more than Rs. 100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency alongwith documentary evidence.

.....



F-10

AGREED TERMS & CONDITIONS

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

This Questionnaire duly filled in, signed & stamped must form part of Bidder's Bid and should be returned along with Un-priced Bid. Clauses confirmed hereunder need not be repeated in the Bid.

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
1	Bidder's name and address	
2.	Please confirm the currency of quoted prices is in Indian Rupees.	
3.	Confirm quoted prices will remain firm and fixed till complete execution of the order.	
4	Rate of applicable GST	
a	Applicable GST is	CGST+SGST/IGST (Please tick as applicable)
b	CGST+SGST	%age
c	IGST	
d	Cess (if any)	%age
e	Service Accounting Codes (SAC) has been submitted and mentioned in un-priced SOR	
5.	i) Confirm acceptance of relevant Terms of Payment specified in the Bid Document. ii) In case of delay, the bills shall be submitted after deducting the price reduction due to delay.	
6.	Confirm that Contract Performance Bank Guarantee will be furnished as per Bid Document.	



7.	Confirm that Contract Performance Bank Guarantee shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of Rs.100 crores and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.	
8.	Confirm compliance to Completion Schedule as specified in Bid document. Confirm contract period shall be reckoned from the date of Fax of Intent.	
9.	Confirm acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document.	
10.	a) Confirm acceptance of all terms and conditions of Bid Document (all sections). b) Confirm that printed terms and conditions of bidder are not applicable.	
11.	Confirm your offer is valid for 3 months from Final/Extended due date of opening of Techno-commercial Bids.	
12.	Please furnish EMD/Bid Security details : a) EMD/ Bid Security No. & date b) Value c) Validity	
13.	Confirm acceptance to all provisions of ITB read in conjunction with Bid Data Sheet (BDS).	
14.	Confirm that Annual Reports for the last three financial years are furnished alongwith the Un-priced Bid.	
15.	Confirm that, in case of contradiction between the confirmations provided in this format and terms & conditions mentioned elsewhere in the offer, the confirmations given in this format shall prevail.	
16.	Confirm that none of Directors of bidder is a relative of any Director of Owner or the bidder is a firm in which any Director of Owner/ BCPL or his relative is a partner.	
17.	All correspondence must be in ENGLISH language only.	
18.	Owner reserves the right to make any change in the terms & conditions of the TENDER/BIDDING DOCUMENT and to reject any or all bids.	
19.	Confirm that all Bank charges associated with Bidder's Bank shall be borne by Bidder.	



20	Confirm acceptance of Anti profiteering clause no. 171 of GST Act.	
21	a) Whether bidder falls under MSE Act.	
	If yes, Whether bidder is a MSE belonging to SC/ST category.	
	b) Whether MSE bidder has declared UAM no. on CPPP w e f 1st April'2018	

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:



F-11

ACKNOWLEDGEMENT CUM CONSENT LETTER

(On receipt of tender document/information regarding the tender, Bidder shall acknowledge the receipt and confirm his intention to bid or reason for non-participation against the enquiry /tender through e-mail/fax to concerned executive in BCPL issued the tender, by filling up the Format)

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

We hereby acknowledge receipt of a complete set of bidding document along with enclosures for subject item/job and/or the information regarding the subject tender.

- We intend to bid as requested for the subject item/job and furnish following details with respect to our quoting office:

Postal Address with Pin Code :
Telephone Number :
Fax Number :
Contact Person :
E-mail Address :
Mobile No. :
Date :
Seal/Stamp :

- We are unable to bid for the reason given below:
Reasons for non-submission of bid:

Agency's Name :
Signature :
Name :
Designation :
Date :
Seal/Stamp :



F-12
UNDERTAKING ON LETTERHEAD

To,

M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Dear Sir

We hereby confirm that “The contents of this Tender Document No. _____ have not been modified or altered by M/s.(Name of the bidder with complete address). In case, it is found that the tender document has been modified / altered by the bidder, the bid submitted by M/s.....(Name of the bidder) shall be liable for rejection”.

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:



F-13
BIDDER'S EXPERIENCE

To,
M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

**SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH**

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

Sl. No	Descripti on of the Services	LOA /WO No. and date	Full Address & phone nos. of Client. <i>Name, designation and address of Engineer/ Officer-in-Charge (for cases other than purchase)</i>	Postal	Value of Contract/O rder (Specify Currency Amount)	Date of Commenc ement of Services	Scheduled Completio n Time (Months)	Date of Actual Completi on	Reasons for delay in executio n, if any
(1)	(2)	(3)	(5)		(6)	(7)	(8)	(9)	(10)

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:



F-14
CHECK LIST

Bidders are requested to duly fill in the checklist. This checklist gives only certain important items to facilitate the bidder to make sure that the necessary data/information as called for in the bid document has been submitted by them along with their offer. This, however, does not relieve the bidder of his responsibilities to make sure that his offer is otherwise complete in all respects.

Please ensure compliance and tick (✓) against following points:

S. No.	DESCRIPTION	CHECK BOX	REFERENCE PAGE NO. OF THE BID SUBMITTED
1.0	Digitally Signing (in case of e-bidding) on each sheet of offer, original bidding document including SCC, ITB, GCC ,SOR drawings, addendum (if any)		
2.0	Confirm that the following details have been submitted in the Un-priced part of the bid		
i	Covering Letter, Letter of Submission		
ii	Bid Security/ EMD		
iii	Signed and stamped original copy of bidding document along with drawings and addendum (if any)(Not Applicable in case of e-bidding)		
iv	Power of Attorney in the name of person signing the bid.		
v	Copies of documents defining constitution or legal status, place of registration and principal place of business of the company		
vi	Bidders declaration that regarding, Holiday/ Banning, liquidation court receivership or similar proceedings in Format 7.		
vii	Details and documentary proof required against qualification criteria along with complete documents. (Also fill the documents & certification checklist given below)		
viii	Confirm submission of document alongwith techno-commercial bid as per bid requirement.		
3.0	Confirm that all forms& formats duly filled in are enclosed with the bid duly signed by authorized person(s)		
4.0	Confirm that the price part as per Price Schedule format submitted with Bidding Document/ uploaded in case of e-bid		
7.0	Confirm that annual reports for last three financial years & duly filled in Form 16 are enclosed in the offer for financial assessment (where financial criteria of BEC is applicable).		



DOCUMENTS & CERTIFICATION CHECKLIST

S NO	DESCRIPTION	CHECK LIST	YES/ NA	NO
1.a	EMD Value	Not applicable		
A	DD	DD No. _____ dated For Rs. _____	YES/ NA	NO
B	BG	BG VALIDITY BEYOND 3 THREE MONTHS FROM BID VALIDITY PERIOD OF 90 DAYS	YES/ NA	NO
C	NSIC/DIC CERTIFICATE, EM PART-II/ UDYOG ADHAR	Duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) AND Notary Public with Legible stamp as MENTIONED IN CLAUSE NO.40 OF ITB	YES/ NA	NO
2.	TENDER FEE if applicable	Not applicable	YES	NO
3.	BID VALIDITY UPTO THREE MONTHS	ACCEPTED	YES	NO
3 (i)	<i>Experience against status of the Company</i>	c) Bidder must submit/upload relevant document(s) to substantiate that the bidder is a PSU/Government Construction Agency. d) Bidder must submit/upload relevant document(s) to substantiate that bidder is in construction line since last 5 years or more from the date of unpriced bid opening.	YES	NO
3 (ii)	<i>Experience against execution & completion of order</i>	c) Bidder must submit/upload the Copy of Order/LOA/Contract/Agreement along with it's detail SOR items & scope of work which has been executed towards similar nature of jobs as mentioned at clause no. 1.1.2 of BEC in previous seven (07) years to be reckoned from the due date of unpriced bid opening. d) Copy of Completion Certificate or equivalent against the Order/LOA/Contract/Agreement as mentioned at point "a" above, must be submitted. The Completion Certificate or equivalent must contain the detailed information like Order/ LOA/ Contract/Agreement No. with date, Brief Scope of work / Name of work, Order value, Total executed value, Scheduled date of Work completion and date of Actual work completion etc. The Completion Certificate or equivalent should have been issued by the end-user/owner/authorized consultant.	YES	NO
A	ORDER COPY	Duly CERTIFIED by CHARTERED ENGINEER with LEGIBLE stamp	YES	NO
		Duly NOTARISED by Notary Public with legible stamp	YES	NO
B	COMPLETION/EXECUTION CERTIFICATE	Has been issued by the End User / Owner / Authorized Consultant of Owner.	YES	NO
		Duly CERTIFIED by CHARTERED ENGINEER with LEGIBLE stamp	YES	NO



ब्रह्मपुत्रक्रेकरऔरपालीमेरलिमिटेड
(भारतसरकारकाउपक्रम)
Brahmaputra Cracker and Polymer Ltd.
(A Government of India Enterprise)

S NO	DESCRIPTION	CHECK LIST	YES/ NA	NO
		Duly NOTARISED by Notary Public with legible stamp	YES	NO
C	CERTIFICATE TOWARDS STARTUP ENTERPRISE REGISTRATION ISSUED BY DIPP, MINISTRY OF COMMERCE & INDUSTRY, GOI	Not applicable	YES	NO
		Not applicable	YES	NO
5.	FINANCIAL CRITERIA AS STIPULATED IN BEC			
5(i)	Financial Documents – Turn Over (Not Applicable for Startup)	Uploaded Audited balance sheet and profit & loss account statement of any of the three (3) preceding Financial Year(s), i.e FY: 2017-2018, 2016-2017 & 2015-2016 meeting Turn over Financial Criteria as stipulated in BEC along with un-price bid.	YES/ NA	NO
5(ii)	Financial Documents – Net Worth & Working Capital	Uploaded AUDITED Balance Sheet and Profit & Loss Statement of FY: 2017-2018 meeting the NET WORTH & Working Capital Financial Criteria as stipulated in BEC.	YES	NO
A	Balance Sheet/s & Profit & Loss Statements as in 5(i), & 5(ii) above	Duly attested by Notary Public with legible stamp	YES	NO
B	Details of financial capability of bidder prescribed Format, F-16 as stipulated in BEC	Duly signed and stamped by a Chartered Accountant with Membership Number	YES	NO
C	In Case Bidder's Working Capital is inadequate as stipulated in BEC	Letter (as per Format, F-15) from the Bidder's bank having net worth not less than INR 1(one) Billion confirming the availability of the line of credit covering the inadequacy to meet the working capital requirement duly certified/attested by Notary Public with legible stamp.	YES/ NA	NO
6.	Tender Document uploaded	Uploaded Unedited & Digitally signed ALONGWITH UNPRICED BID.	YES	NO
7.	SOR (BLANK without price) MENTIONING WORD "QUOTED/NOT QUOTED" IN EACH ITEM RATE COLUMN	Uploaded Digitally signed scanned copy of EACH SOR (all 2 Parts) filled QUOTED/NOT QUOTED, ALONGWITH UNPRICED BID.	YES	NO
8.	FORM 1 TO 18 ATTACHED TO TENDER	FILLED AS APPLICABLE, SIGNED, STAMPED &UPLOADED ALL	YES	NO
Non-submission of the attested copies of the requisite certificates/ documents as specified above and/or in tender document shall render the bid non-responsive and shall be liable for rejection.				



Place: [Signature of Authorized Signatory of Bidder]
Date: Name:
Designation:
Seal:

Bidder is requested to fill this check list and ensure that all detail/ documents have been uploaded/submitted including this Checklist duly filled in, signed & stamped alongwith the “Un-priced bid (Part-I)”. **Non submission of any document/ submission without proper attestation may lead to rejection of the Bid.**



THIS FORMAT TO BE FILLED BY THE BIDDER

TECHNICAL CRITERIA AS STIPULATED IN BEC

[PLEASE READ, SECTION –II, CLAUSE NO. 1.1 OF BEC OF TENDER DOCUMENT AND GIVE BRIEF DETAILS AGAINST INDIVIDUAL DOCUMENTS SUBMITTED TO QUALIFY BEC-TECHNICAL]

NB:

1. All documents **[to be uploaded / submitted]** are required to be Certified/Attested by both Chartered Engineer and Notarized by Notary Public with legible stamp.
2. If the bidder is submitting only one order & its completion/execution Certificate (as applicable), then sl no. A to be filled in.
3. Likewise, If the bidder is submitting more number of orders and their completion/execution Certificates (as applicable), then sl no. A, B, C, D etc shall be applicable. [In below table, upto sl no. 'D' is mentioned. Bidder to increase rows if intend to submit more documents]

Sl. No.	List of Order Details	Description	Details [to be mentioned by the bidder]
A	1 st Order/ LOI/Contract		
A1		Name of Order issuing Agency/Client/Owner/Company	:
A2		Order No. & Date	:
A3		Brief Details/Name (Nature) of Supply	:
A4		Contract/Order Value (in Rs.)	:
A5		Period of Contract/ Order	:
A6		Completion /Execution Certificate (as applicable) to contain the following: i. Date of issue ii. Brief Details/Name (Nature) of Supply iii. Contract/Order Value (in Rs.) iv. Period of Contract/ Order v. Actual Date of Completion/Execution vi. Executed Value (in Rs.)	 _____ _____ _____ _____ _____ _____



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B	2 nd Order/ LOI/Contract	Description	Details [to be mentioned by the bidder]
B1		Name of Order issuing Agency/Client/Owner/Company	
B2		Order No. & Date	
B3		Brief Details/Name (Nature) of Supply	
B4		Contract/Order Value (in Rs.)	
B5		Period of Contract/ Order	
B6		Completion /Execution Certificate (as applicable) to contain the following: i. Date of issue ii. Brief Details/Name (Nature) of Supply iii. Contract/Order Value (in Rs.) iv. Period of Contract/ Order v. Actual Date of Completion/Execution vi. Executed value (in Rs.)	
C	3 rd Order/ LOI/Contract	Description	Details [to be mentioned by the bidder]
C1		Name of Order issuing Agency/Client/Owner/Company	
C2		Order No. & Date	
C3		Brief Details/Name (Nature) of Supply	
C4		Contract/Order Value(in Rs.)	
C5		Period of Contract/ Order	
C6		Completion /Execution Certificate (as applicable) to contain the following: i. Date of issue ii. Brief Details/Name (Nature) of Supply iii. Contract/Order Value (in Rs.) iv. Period of Contract/ Order v. Actual Date of Completion/Execution vi. Executed value(in Rs.)	



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D	4 th Order/ LOI/Contract	Description	Details [to be mentioned by the bidder]
D1		Name of Order issuing Agency/Client/Owner/Company	
D2		Order No. & Date	
D3		Brief Details/Name (Nature) of Supply	
D4		Contract/Order Value (in Rs.)	
D5		Period of Contract/ Order	
D6		Completion /Execution Certificate (as applicable) to contain the following: i. Date of issue ii. Brief Details/Name (Nature) of Supply iii. Contract/Order Value (in Rs.) iv. Period of Contract/ Order v. Actual Date of Completion/Execution vi. Executed value (in Rs.)	



THIS FORMAT TO BE FILLED BY THE BIDDER
FINANCIAL CRITERIA AS STIPULATED IN BEC

[PLEASE READ SECTION-II, CLAUSE NO. A.2 OF BEC AND GIVE BRIEF DETAILS IN THE BELOW CHECK LIST FORMAT]

NB:

1. **Format-16** (to be **submitted/uploaded**) is required to be Certified/Attested by Chartered Accountant and to be uploaded/submitted.
2. **Audited Balance Sheet and Profit & Loss Statements (Submitted)** of FY: 2017-2018, 2016-2017 & 2015-2016 meeting the Turn Over, NET WORTH & Working Capital requirement of BEC-Financial are to be duly signed and stamped (duly certified /attested) by Notary Public with legible stamp and to be submitted.
3. Bidder to Put 'tick mark' only [out of two options (i.e 'Yes' or 'No', one option to be exercised and other one to be deleted in the column given below]

1.2	FINANCIAL CRITERIA		Document Details submitted for the below Financial Year:	DOCUMENT WHETHER SUBMITTED/UPLOADED	
				Option	Tick Mark
1.2.1	Financial Documents – Turn Over as per applicability of relevant clause of BEC	:	Uploaded / Submitted Audited financial statements Balance Sheet and Profit & Loss Account statement of any of the three (3) preceding Financial Year(s), i.e. FY: 2017-2018, 2016-2017 & 2015-2016 [to be reckoned from bid due date] along with un-price bid uploaded /submitted. FY: 2017-2018 FY: 2016-2017 FY: 2015-2016 FY: 2014-2015	Yes / No Yes / No Yes / No Yes / No	



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1.2.2 & 1.2.3	Financial Documents – Net Worth & Working Capital as per applicability of relevant clause of BEC In Case Bidder's working capital is inadequate as per applicability of relevant clause of BEC In case Bidder's working capital is inadequate, the bidder shall supplement this with a letter (as per Format-15) from the Bidder's bank having net worth not less than Rs.100 Crore, confirming the availability of the line of credit covering the inadequacy to meet the working capital requirement as per applicability of relevant clause of BEC which is to be uploaded /submitted.	:	Uploaded AUDITED Financial Statements Balance Sheet and Profit & Loss Statement of FY: 2016-2017. Name of Issuing Bank_____ Branch Code:_____ Location & Address:_____ Tel No._____ Email ID:_____	Yes / No	
1.2.4	Details of financial capability of bidder prescribed Format-16 as per applicability of relevant clause of BEC	:	Name Of Chartered Accountant:_____ Membership No. of Chartered Accountant_____	Yes / No	

=====



F-15

**FORMAT FOR CERTIFICATE FROM BANK IF BIDDER'S WORKING
CAPITAL IS INADEQUATE**

(To be provided on Bank's letter head)

Date:

To,
M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

Dear Sir,

This is to certify that M/s (name of the bidder with address) (hereinafter referred to as Customer) is an existing customer of our Bank.

The Customer has informed that they wish to bid for BCPL's RFQ/Tender no. dated for(Name of the supply/work/services/consultancy) and as per the terms of the said RFQ/Tender they have to furnish a certificate from their Bank confirming the availability of line of credit.

Accordingly M/s (name of the Bank with address) confirms availability of line of credit to M/s (name of the bidder) for at least an amount of Rs. _____ (Total Working Capital Amount) to meet the inadequacy in Working Capital.

It is also confirmed that the net worth of the Bank is more than Rs. 100 Crores (or Equivalent USD) and the undersigned is authorized to issue this certificate.

Yours truly

for (Name & address of Bank)

(Authorized signatory)

Name of the signatory :

Designation :

Stamp



F-16

FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE/ CERTIFIED PUBLIC ACCOUNTANT (CPA) FOR FINANCIAL CAPABILITY OF THE BIDDER

We have verified the Audited Financial Statements and other relevant records of M/s..... (Name of the bidder) and certify the following:

A. AUDITED ANNUAL TURNOVER* OF LAST 3 YEARS:

Year	Amount (Currency)
Year 1:	
Year 2:	
Year 3:	

B. NETWORTH* AS PER LAST AUDITED FINANCIAL STATEMENT:

Description	Year ____
	Amount (Currency)
1. Net Worth	

C. WORKING CAPITAL* AS PER LAST AUDITED FINANCIAL STATEMENT :

Description	Year ____
	Amount (Currency)
1. Current Assets	
2. Current Liabilities	
3. Working Capital (Current Assets-Current liabilities)	

****Refer Instructions***

Note: It is further certified that the above mentioned applicable figures are matching with the returns filed with Registrar of Companies (ROC) [Applicable only in case of Indian Companies]

Name of Audit Firm:
Chartered Accountant/CPA
Date:

[Signature of Authorized Signatory]
Name:
Designation:
Seal:
Membership No.:

Instructions:

1. The Separate Pro-forma shall be used for each member in case of JV/ Consortium.
2. The financial year would be the same as one normally followed by the bidder for its Annual Report.



3. The bidder shall provide the audited annual financial statements as required for this Tender document. Failure to do so would result in the Proposal being considered as non-responsive.
4. For the purpose of this Tender document:
 - (i) **Annual Turnover** shall be “Sale Value/ Operating Income”
 - (ii) **Working Capital** shall be “Current Assets less Current liabilities” and
 - (iii) **Net Worth** shall be Paid up share capital plus Free Reserves & Surplus less accumulated losses, deferred expenditure and miscellaneous expenditure not written off, if any.
5. **Above figures shall be calculated after considering the qualification, if any, made by the statutory auditor on the audited financial statements of the bidder including quantified financial implication.**

This certificate is to be submitted on the letter head of Chartered Accountant/CPA.



F-17

BIDDER'S QUERIES FOR PRE BID MEETING

To,
M/s BRAHMAPUTRA CRACKER AND POLYMER LIMITED

SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF
RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL
TOWNSHIP, BARBARUAH

E-Tender No.: BCPL/C&P/LE18W0184ND/90000924

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	BCPL'S REPLY
	SEC. NO.	Page No.	Clause No.	Subject		

NOTE: The Pre-Bid Queries may be sent by fax and also by e-mail before
due date for receipt of Bidder's queries.

SIGNATURE OF BIDDER: _____

NAME OF BIDDER : _____



F-18

E-Banking Mandate Form

(To be issued on vendors letter head)

1. Vendor/customer Name :
2. Vendor/customer Code:
3. Vendor /customer Address:
4. Vendor/customer e-mail id:
5. Particulars of bank account

- a) Name of Bank
- b) Name of branch
- c) Branch code:
- d) Address:
- e) Telephone number:
- f) Type of account (current/saving etc.)
- g) Account Number:
- h) RTGS IFSC code of the bank branch
- i) NEFT IFSC code of the bank branch
- j) 9 digit MICR code

I/We hereby authorize Brahmaputra Cracker and Polymer Limited to release any amount due to me/us in the bank account as mentioned above. I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the Brahmaputra Cracker and Polymer Limited responsible.

(Signature of vendor/customer)

BANK CERTIFICATE

We certify that ----- has an Account no. ----- with us and we confirm that the details given above are correct as per our records.

Bank stamp

Date

(Signature of authorized officer of bank)



भाग – IV

SECTION – IV

संविदा की सामान्य शर्ते) जीसीसी(

GENERAL CONDITIONS OF CONTRACT (GCC)



CONSENT LETTER ON ACCEPATNCE OF GENERAL CONDITIONS OF CONTRACTS (GCC)/GENERAL PURCHASE CONDITION (GPC)

NIT/RFQ NUMBER: BCPL/C&P/LE18W0184ND/90000924

Dear Sir,

I/we have read the following Conditions of Contract which is available in the BCPL website.

I/ we further confirm that we have agreed to all the conditions as printed/available in the Documents in BCPL website in entirety and unconditionally.

1. General Conditions of Contract.

(http://www.bcplonline.co.in/content/tender/GCC_CONTRACTS.pdf)

Thanking you,

(Sign of the authorized signatory with the Company/ Firm seal)

Name:

Designation:

Company Seal:



भाग – V
SECTION – V
SPECIAL CONDITIONS OF CONTRACT
[SCC]



SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH

1. GENERAL:

- 1.1 The Special Condition of Contract shall be read in conjunction with the General Conditions of Contract, Schedule of rates, specifications, drawings and any other documents forming part of contract, wherever the context so requires. Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- 1.2 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 1.3 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain WORK or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.4 The materials, design, and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.5 The intending bidder shall be deemed to have visited the site. Non-familiarity with site condition and unawareness of General Condition of contract will not be considered a reason either for extra claim or for not carrying out work in strict conformity with drawings and specifications.
- 1.6 The broad objectives of engaging the Executing Agency/ organization is to ensure.
 - a) High standards of planning, designing, execution and commissioning of the projects as per the requirements.
 - b) High standards of quality assurance in the execution of the works.
 - c) The completion of the works within the stipulated time frame.
 - d) The comprehensive supervision of Project implementation activities including, designing, construction and handing over the project to BCPL.
 - e) The efficient construction supervision and management of works by personnel who are experienced in modern methods of construction supervision and contract management; and
 - f) The application of reasonable and consistent design, construction and contractual resolutions of the contracts.
 - g) All such other actions required to be taken for satisfactory completion of the project to the entire satisfaction of the BCPL.



h) Management of contract and resolution of any dispute arising out of the contracts.

2. **LOCATION:**

BCPL TOWNSHIP, Barbaruah , Dibrugarh, Assam

3. **SCOPE OF WORK:**

The Scope of work shall be as per Section-VI of tender document.

4. **TIME OF COMPLETION/PERIOD OF CONTRACT:**

The Time of Completion/Period of Contract shall be **SEVENTEEN MONTHS i.e. 17 months** from the date of issuing the LOI/LOA. The work shall be executed strictly as per time Schedule given in Tender Document. The period of completion given includes the time required for mobilization as well as testing, rectifications, if any, re-testing and completion in all respects to the entire satisfaction of the Engineer-in-Charge. The tentative chronology and Time Schedule for the activities of the contract shall be as under:

Sl. No	Description of Activity	Duration	To be reckoned from
1	Site visit of the architect to site	10 days	Date of LOI/LOA whichever is earlier
2	Submission of Plans, elevations and layout for approval of BCPL management	15 days	Date of completion of preceding activity i.e. Sl.No.1
3	Time required for approval by BCPL		
4	Presentation with walk through and submission of detailed drawings (architectural & structural) along with finishing details for approval of BCPL management	15 days	Date of completion of preceding activity i.e. Sl.No.3
5	Time required for approval by BCPL		
6	Submission of final architectural & structural drawings including GFC drawings, BOQ and finishing details.	20 days	Date of completion of preceding activity i.e. Sl.No.5
7	Time for execution of the work	14 months	Date of completion of preceding activity i.e. Sl.No.6
8	Submission of As Built drawings and statutory compliances	30 days	Date of completion of preceding activity i.e. Sl.No.7

Note:



- i. If the execution works are sublet to a third party, the time required for party finalization as per SCC Clause No.50 is included in Sl. No. 7 above i.e. 14 months. No extra time will be given for subletting of construction works.
- ii. Time being the essence of the vendor finalization works for specialized works like HVAC, waterproofing, firefighting etc. are to be planned properly.
- iii. Time required for approvals from BCPL only as mentioned in Sl. No.3 and Sl. No. 5 in the above table will not be taken in to account for calculation of contract period. Any other statutory approvals from BCPL/BCPL representative will be taken in to account for calculation of contract period.
- iv. No extra time will be provided for rainy season. The activities should be planned keeping in view the prevalent climatic condition of the geographic location of site.

5. **SECURITY DEPOSIT:**

Refer ITB Clause no. 38

6. **TECHNICAL SPECIFICATION:**

As enumerated in Scope of work (Section-VI) & technical specification (Section-VII).

7. **TESTS AND INSPECTION:**

- 7.1 The Contractor shall carry out the various tests as enumerated in the technical specifications of this tender document and the technical documents that will be furnished to him during the performance of the work and no separate payment shall be made unless otherwise specified in schedule of rates.
- 7.2 All the tests either on the field or at outside laboratories concerning the execution of the work and supply of materials by the Contractor shall be carried out by Contractor at his own cost.
- 7.3 The Contractor shall provide for purposes of inspection access ladders, lighting and necessary instruments at his own cost for inspection work.
- 7.4 Any work not conforming to execution drawings, specifications or codes shall be rejected forthwith and the Contractor shall carryout the necessary rectification at his own cost.
- 7.5 All results of inspection and tests will be recorded in the inspection reports, Proforma of which will be approved by the Engineer-in-Charge. These reports shall form part of the completion documents.
- 7.6 Inspection and acceptance of work shall not relieve the Contractor from any of his responsibilities under this Contract.

8. **ORDER OF PRECEDENCE:**

In case of ambiguity in Schedule of Rates, General Conditions of Contract, Specifications, Drawings the following order of precedence will prevail –

- a) Telex/Telegram/Fax of intent, detailed letter of intent along with statement of agreed variations and its enclosures and any corrigendum/addendum.
- b) Architectural, Structural and Services drawings.
- c) Technical/ Commercial terms and conditions.



- d) CPWD specifications.
- e) National Building Code-2016.
- f) I. S. Codes.
- g) Sound Engineering Practices
- h) Special/additional conditions of contract.
- i) General conditions of contract.

9. **MEASUREMENT OF WORK:**

- 9.1 Measurement of works shall be made in the units mentioned in the Schedule of Rates as per details given in Technical/Standards specifications.
- 9.2 Wherever details are not available or inadequate in the execution drawings, physical measurements will be taken by the contractor in the presence of the representative of the Engineer-in-Charge. In such cases payment will be made on actual measurements.

10. **DEFECT LIABILITY PERIOD:**

The tenderer shall guarantee all the work (Including workmanship & materials, etc.) executed by him for a period of twelve (12) months from the date of completion of work(s)/Part(s). If during this period any defect occur, the same shall be made good by the contractor at his own cost. Failure to comply with this requirement may result in the forfeiture of security deposit. However, in case of critical items, if the guarantee period is beyond defect liability period, then guarantee shall be applicable for that period also.

11. **CONSTRUCTION EQUIPMENT AND SITE ORGANIZATION:**

- 11.1 The Contractor shall without prejudice to his overall responsibility to execute and complete the work as per specifications and time schedule, progressively deploy adequate equipment and tools and tackles and augment the same as decided by the Engineer-in-Charge depending on the exigencies of the work so as to suit the work/construction schedule without any additional cost to owner. The bidder shall submit a list of construction equipment he proposes to deploy for the subject work along with deployment schedule. No Construction Equipment shall be supplied by the Owner.
- 11.2 Subject to the provisions in the tender document, contractor shall deploy experienced technical personnel. The minimum requirement for deployment of Technical personnel are as under:

Sl. No	Designation	Minimum Nos. of persons to be deployed	Deployment schedule	Minimum Qualification /Experience	Rate at which recovery shall be made from the Contractor in the event of non-deployment
1.	Project Manager	01	Immediately after issue of LOA till the completion of work.	B.Tech (Civil)/15 years	Rs. 1,00,000/- per month
2.	Civil	01	Within one week	5years	Rs. 70,000/- per



	Engineer		after the issue of LOA till the completion of work.	B.E/B.Tech(Civil)/8 years Diploma(Civi l)	Month per person
3.	Planning Engineer	01	Within one week after the issue of LOA till the completion of work.	5years B.E/B.Tech(Civil)/8 years Diploma(Civi l)	Rs. 70,000/- per Month per person
4.	Electrical Engineer	01	Before the commencement of electrical works till the completion of work.	5years B.E/B.Tech(E lectrical)/8 years Diploma(Ele ctrical)	Rs. 70,000/- per Month per person
5.	Safety Officer	01	From the commencement of construction works till the completion of work.	As per requirement	Rs. 70,000/- per Month per person

Note:

The contractor shall provide for Engineer-in-Charge or his Representative at all times during the contract including defect liability period a competent Supervisor/Foreman and/or and all such other men to assist him in carrying out or checking any measurements, levels setting out or measuring up of work, inspection and approval of works etc. The contractor shall also provide all tools, ladders, gangways, etc. as necessary for inspection or measurement of the works by the Engineer-in-Charge or his Representative.

12. **MOBILIZATION ADVANCE (M.A.):**

No mobilization advance is payable for this work.

13. **COMPENSATION FOR EXTENDED STAY:**

No compensation for extended stay is payable to contractor.

14. **ABNORMALLY HIGH RATED ITEMS (AHR ITEMS):**

In items rate contract where the quoted rates for the items exceed 50% of the owners/estimated rates, such items will be considered as Abnormally High Rates Items (AHR) and payment of AHR items beyond the SOR stipulated quantities shall be made at the least of the following rates:

- (I) Rates as per SOR, quoted by the contractor.
- (II) Rate of the item, which shall be derived as follows:
 - a) Based on rates of machine and labor as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).
 - b) In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labor plus 10% to cover contractor's supervision profit, overhead & other expenses.

15. **MISCELLANEOUS:**



All obligations arising of labor deployment labor laws to meet the necessary statutory requirement would solely lie on the contractor. Contractor would be solely responsible for safety and security of manpower and materials.

16. **SCHEDULE OF RATES:**

- 16.1 The rates quoted by the bidder shall remain firm for any variation and will assume to be inclusive of all taxes & duties excluding GST thereon.
- 16.2 No escalation of whatsoever nature shall be paid to the contractor for the entire Contract Period.

17. **COMPENSATION FOR DELAY (PRICE REDUCTION SCHEDULE):**

- 17.1 In case of delay in mobilization or in completion of work in all respects and to the full satisfaction of Engineer-In-Charge, the Engineer-In-Charge may at his discretion impose a penalty at the rate of 0.5% per week or part thereof limited to 5% of the contract value.
- 17.2 Alternatively, in case the Engineer-In-Charge feels that the progress of work is dissatisfactory and the work may be delayed beyond the scheduled or contractual completion date, he may at his discretion get the work done through other agency at the risk and cost of the contractor without prejudice to other rights available to owner under the contract. The decision of the Engineer-In-Charge shall be final and binding in this regard.

18. **TERMINATION OF CONTRACT:**

Refer GCC of relevant clause.

19. **CLEARANCE OF SITE:**

- 19.1 As a part of the contract the contractor shall completely remove all temporary/disposable materials, while execution of work at his own cost and initiative and dispose off the same as directed by Engineer-in-charge.
- 19.2 The works will not be considered as complete and taken over by the owner, until all the temporary works, labor and staff colonies etc. constructed are removed and the work site cleared to the satisfaction of the Engineer-in-charge, surplus materials and rubbish is cleared off the site completely and the work shall have been measured by the Engineer-in-charge whose measurement shall be binding and conclusive.
- 19.3 If the contractor fails to comply with the requirements of this clause on or before the date fixed for the completion of the work, the Engineer-in-charge may at the expenses of the contractor remove such, surplus materials and rubbish and disposal off the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall forthwith pay the amount of all expenses as incurred and shall have no claim in respect of any such surplus materials as aforesaid except for any sum actually realized by the sale thereof.

20. **ADHERENCE TO SAFETY REGULATIONS:**

Contractor shall ensure that all safety precautions required one observed at all times during the execution of the job.

21. **POWER AND WATER FOR CONSTRUCTION AND OTHER PURPOSES**

Water and power at one point only shall be provided by BCPL, and charges as applicable will be deducted from the agency. The contractor however shall not tap any fire hydrant/



water point/ electrical point before obtaining prior approval of the EIC. Contractor shall make his own arrangement for distribution of water and power by use of pipes/ cables etc. All electrical temporary distribution shall be properly earthed so as to avoid any mishap.

The Contractor will arrange his own back-up power through DG set if necessary. All expenses pertaining to operating and running of DG Set will be borne by the contractor. Power will be provided to the contractor provided the total power requirement is not more than the sanctioned load of the building. For heavy works like welding, etc the contractor is advised to arrange his own gen set. Also water shall be arranged by the contractor for functional and construction requirements. The decision of EIC is final in this regard.

22. **NUISANCE:**

The contractor or his representative shall not at any time cause any nuisance on the site or do anything which shall cause unnecessary disturbance to the occupants or their properties near the site and to the public generally. The work site should be properly barricaded and cordoned to prevent entry of unauthorized persons. Necessary measures like uniform and efficient sprinkling of water at work place for dust suppression should be done as per instruction of the Engineer-in -charge. The existing infrastructure of the Township should have a dust free atmosphere. No extra payment will be made by BCPL in this regard.

23. **OWNER NOT BOUND BY PERSONAL REPRESENTATION:**

The contractor shall not be entitled to any increases on the schedule of rates or any other right or claim whatsoever by reason of any representation, explanation statement or alleged representation explanation statement or alleged representation, promise or guarantees given or called to have been given to him by any person.

24. **CARE OF WORKS:**

From the commencement to completion of the work, the contractor shall take full responsibility for the care for all works including all temporary works any in case any damages, loss or injury shall happen to the work or to a part thereof or to any temporary works from any reason.

25. **DEFENCE OF SUITS:**

If any action in court is brought against the owner or an officer or agent of the owner, for the failure, omission or neglect on the part of the contractor to perform any acts, matters, convenient or things under the contract or damage or injury caused by the alleged omission or negligence on the part of the contractor, his agents, representative or his subcontractors or in connection with any claim based on lawful demand of sub-contractor, shall in such cases indemnify and keep the owner and/or their representatives harmless from all loss, damages, expenses or decrease arising out of such action.

26. **LABOUR COMPLIANCES:**

26.1 The contractor has to pay following wage components along with statutory payments/obligation as indicated in SOR to the persons engaged by him at BCPL site:

S.N	Wage component	Rates
a	Minimum wage	As notified by Central Government or State Government from time to time (whichever is higher)



b	PF Contribution including EDLI & Administrative Charges	13.15% of wage (The contractor has to ensure deposit of PF contribution @ 12 % of wages irrespective of rate of wages)
c	Employee State Insurance(ESI) contribution or Insurance policy coverage under Employee's Compensation Act 1923 & Employee's Compensation Act 2010	4.75% of minimum wage in case of ESI is applicable or reimbursement of cost of Insurance coverage obtained under Employee's Compensation Act 1923 upto Rs.10.86 lacs per contract worker
d	Bonus will be paid as per Payment of Bonus (Amendment) Act, 2015	8.33% of wage (The same may be paid to the contract workers during festival time by the contractor and take reimbursement on submission of proof of payment of bonus).
e	Leave wages as per factory Act/Rule or Shops & Establishment Act of respective states	4NH, 7 Festival Holidays and Annual Leave with wages as per Factory Act 1948 i.e 1 day paid leave for every 20 days work performed.
g	Maternity benefit to women contractor under Maternity Benefit Act 1961 where ESI Act 1948 is not applicable.	As per Maternity Benefit Act 1961 and Amendment 2016

- 26.2 The contractor shall be solely responsible for the Payment of Minimum Wages, as per Labor Law/ Central Government notification (latest) to all the employees engaged by him. Normally minimum wages are revised during the months of April & October in every year and accordingly contractor has to consider the escalation of minimum wages in their quoted rates. Apart from the points listed in SI No. 26.1 above, the contractor has to consider the following:
- The rates will be valid till completion of the scope of work in its entirety without any escalation for material or labour. Thus, the rates will remain firm throughout the period of contract, irrespective of executed value of the contract which might be above or below the awarded value notwithstanding GCC clause no.60.2.I (e).
 - The contractor is responsible for obtaining the labour license under the provisions of the Contract Labour (R & A) Act, 1970 from the office of RLC (Central), Ministry of Labour, Govt. of India, Dibrugarh.
 - Minimum Wages shall be paid as notified under Minimum Wages Act-1948 and its amendment thereof. Escalation of Minimum Wages in every 6 months i.e. 1st April and 1st October to be provisioned.
 - The Contractor is solely responsible for the disbursement of wages and other dues to their respective workman latest by 7th day of every month via electronic mode.
 - Paid Weekly Off shall be granted to every workman after continuous 6 days of working.
 - Paid National Holiday shall be granted to every workman during a calendar year.
 - Paid Festival Holiday (07 Days) shall be granted to every workman in a calendar year. Worker will decide the particular festival day on which they will take the leave after mutual discussion with the respective contractors to ensure that there is no hindrance to the work at BCPL Site.
 - Annual Leave wages shall be allowed to workman as per the provisions of the Factories Act-1948 and rules made thereunder.
 - Contractor shall pay bonus to their respective contract workers as per the Payment of Bonus Act-1965 and as amended from time to time.



- (x) Provident Fund shall be regulated as per the provisions of Employee Provident Fund & Miscellaneous Provisions Act-1952 and as amended from time to time. Contractor shall ensure activation of UAN number with Bank Account for all the contract workers engaged by them in their respective worksite. The Contractor shall have his own PF code no with RPFC as required under EPF Misc. Provisions Act, 1952. It is also recommended that Contractor should obtain a subcode under EPFO, Tinsukia and deposit the contribution of its workers in EPFO Tinsukia. The contract must submit the proof of depositing PF contribution of their workmen in form of monthly ECR mandate, Confirmation slip, and acknowledgment slip along with PF challan with monthly RA bills.
- (xi) Shift Allowance shall be granted to the workers who perform their duties in Shifts.
- (xii) Employees Compensation shall be regulated as per the provisions of Employee Compensation Act-2010 and as amended from time to time. The contractor shall ensure to obtain Employees Compensation Insurance policy covering the risks of accident at the workplace and injury sustained out of or in course of and out of employment in respect of workman deployed by the contractor as per Employees' Compensation Act, 2010 and rules framed there under.
- (xiii) Every women worker shall get Maternity Benefit as per the provision of the Maternity Act. 1961 and as amended from time to time.
- (xiv) Contractor to issue Employment Card to all their contract workers as per the FORM XIV (See Rule 76) of Contract Labour (Regulation & Abolition) Act. 1970.
- (xv) Contractor shall issue wage slip to their respective contract workers in "Form XIX" under Rule 78 (1) (b) of the Contract Labour (Regulation & Abolition) Act. 1970.
- (xvi) Contractor shall provide Uniform & PPEs to their respective contract workers as per contractual terms & conditions.
- (xvii) Contractor to undertake Health Check-up of all contract workers as per the provisions of the Factories Act-1948 and Assam Factories Rules -1950 and rules made thereunder & submit health checkup report to HR Department.
- (xviii) Contractor shall pay Retrenchment Compensation to retrenched contract workers as per the provisions of ID Act. 1947. Contractor to serve at least 30 days' notice or payment in lieu of notice to the contract worker those who have completed at least 240 days in preceding 12 months as on the day of retrenchment.
- (xix) Contractor shall abide by all necessary licenses/ permissions from the concerned authorities as provided under the various labour legislations.
- (xx) Contractor shall discharge obligations as provided under various statutory enactment including the Employees Provident Funds and Miscellaneous Provisions Act, 1952, Contract Labour (R & A) Act 1970, Minimum Wages Act, 1948, the Payment of Wages Act, 1936, The Employees Compensation Act, 2010 (earlier known as Workmen's Compensation Act., 1923) and other relevant Acts, Rules and regulations enforced from time to time.
- (xxi) The contractor shall be solely responsible and indemnify the BCPL against all charges, dues, claims etc. arising out of the disputes relating to the due and employment of personnel, if any, deployed by him.
- (xxii) The contractor shall indemnify BCPL against all losses or damages, if any, caused to it on account of acts of the personnel, if any, deployed by him.
- (xxiii) The contractor shall ensure regular and effective supervision and control of the personnel, if any, deployed by him and give suitable direction for undertaking the contractual obligations.
- (xxiv) The contractor is required to maintain registers and records as required under different laws.



- (xxv) The contractor shall take care of the health insurance in respect of all their employees and workmen deputed for this work.
- (xxvi) The contractor shall deploy adequate number of qualified and experienced personnel to discharge the contractual obligations effectively.
- (xxvii) In addition to above, contractors shall ensure implementation of all applicable labour laws / legislation and rules made thereunder and their respective amendments issued by Appropriate Authority from time to time.
- (xxviii) The Contractor shall ensure compulsory Annual Health Check-up of the individual deployed manpower.
- (xxix) The contractor shall consider the overhead costs of the materials, carriage charges, workmen, tools / tackles, and other consumables along with his profit while quoting his rates.
- 26.3 The contractor has to quote the rates by considering all the points as listed in Point No-26.1 & 26.2 above.
- 26.4 The contractor shall be solely responsible for the payment of wages and other dues to the personnel, if any, deployed by him latest by 7th day of the subsequent month and meet all statutory obligation of payment as per minimum wages act. Further, any guidelines/ regulation/ penalty etc. with regards to this clause notified by HR/ Central agency of BCPL from time to time during execution of contract shall be binding on the contractor.
- 26.5 Contractor shall submit the 'Police Verification' of each deployed worker to the EIC.
- 26.6 Engagement of Project Effected Person (PAP) And Local Persons: The contractor will ensure engagement of 100% Project Affected Persons (PAP) and local persons in unskilled category of work for which list of such persons will be provided by the authorized persons of BCPL Authorities. The name of the Authorized person will be notified to the contractor by BCPL Authority from time to time. So far as engagement of Semi-Skilled and Skilled category of manpower in the said work is concerned, the contractor will give preference to the PAPs and local persons fulfilling the technical requirement of the job/work.
- 26.7 The contractor shall ensure that the employees/ workmen employed by him, shall, at all times, be neatly and properly dressed in appropriate cotton clothing along with safety shoes and helmets. The use of protective clothing is a must for each workman at site. The contractor shall provide personal protective equipment (PPEs) including Cotton Cloth Uniform, Safety Shoes, Safety Helmet, Welding Goggles, Grinding Goggles, Hand Gloves, Safety Belts and Rope Ladders etc. as per prevailing safety norms, to all the personnel deployed for the execution of the jobs. Further, any guidelines/ regulation/ penalty etc. with regards to this clause notified by HR/ F&S/ Central agency of BCPL from time to time during execution of contract shall be binding on the contractor.
- 26.8 Employees/ workmen of contractor shall be polite decent and courteous to all officers / employees / workmen of BCPL and shall maintain high standard of discipline, decency and decorum. They shall be medically fit and fully competent to perform the work Personnel employed by the contractor and supervisor working on the roll of the contractor.
- 26.9 The contractor shall employ such workers who are above 18 years of age.
- 26.10 The Contractor/contracting firm shall obtain comprehensive insurance policy covering all risks such as accidents, injuries and death likely to be caused to his workers or -to a third person including loss to the properties of Owner /BCPL or to some other agency. The premium amount should be deposited with the insurance agency by the contractor regularly and without any delay.



- 26.11 In case of any accident resulting in injury or death in respect of the personnel deployed by the contractor during the execution of the work, the contractor shall be solely responsible for payment of adequate compensation, insurance amount, etc. to the person injured/next kith and kin of the deceased. Contractor shall indemnify BCPL from such liabilities.
- 26.12 The contractor/contracting firm shall not employ any person suffering from any contagious, loathsome or infectious disease. The contractor/contracting firm shall get examined his employees / workers through a Government Doctor before deployment.
- 26.13 No worker of contractor/contracting firm and contractor himself shall be allowed to consume alcoholic drinks or any narcotics within the plant premises. If found under the influence of above, the contractor/contracting firm shall have to change/replace him, failing which, BCPL may terminate the contract.
- 26.14 The contractor/contracting firm shall indemnify BCPL against all claims, demands, actions, cost and charges etc. brought by any Court, Competent Authority / Statutory Authorities against any act or acts of the contractor/contracting firm or his workers.
- 26.15 The contractor/contracting firm shall deploy the workers after verification of their character and antecedents. In case any worker is found having criminal record, he shall have to be immediately replaced without any delay.
- 26.16 The contractor/contracting firm shall issue proper identity cards to all the workers who are to be engaged for the job. The identity cards shall be signed by the contractor or his authorized representative. The contractor/contracting firm shall also be responsible for obtaining the gate passes from CISF in respect of all their personnel.
- 26.17 Transportation of contract employees to the site and back shall be the responsibility of the contractor. The personnel deployed against this contract shall not be used for any other contract except without specific clearance from the EIC of the contract.
- 26.18 The personnel to be deputed by the contractor shall observe all security, fire and safety rules of BCPL while at the site. His work will be supervised by BCPL engineers and contractor has to be strictly adhering to the instructions of BCPL Engineer.

27. **EXTRA AND SUBSTITUTED ITEM:**

The rates for extra items/substituted items of work, ordered to be operated / executed shall be derived as under:

- If the item of work is similar to the item for which, the bidder has quoted rates in SOR, the quoted rate shall be applicable.
- If the rate for the item does not appear in the SOR, the rate shall be derived from similar items of work indicated in SOR.
- The rates for those items of work which cannot be derived from quoted rates in the SOR shall be derived from the prevailing market rates of material and labour plus 10% towards contractor's overheads and profits. The opinion of the Engineer in charge as to the current market rates for materials and the quantum of labour and material involved per unit shall be final and binding on the contractor.

For this purpose and for the purpose of sub-clause (c) above, the coefficient of labour, material and wastage shall be adopted from the APWD/CPWD analysis of rates/standard schedule of rates as decided by the ENGINEER-IN-CHARGE. The CONTRACTOR shall submit vouchers /quotations in proof of rates paid /likely to be paid for material and labour.



Above provisions for derivation of rates of extra items/substituted items shall supersede the provisions indicated in GCC.

28. **PRE-BID MEETING:**

Refer relevant clause of ITB.

29. **WORK PROCEDURES:**

The Works have to be carried out as per standard engineering practices and as per instructions of ENGINEER-IN-CHARGE. In case of any discrepancies, the decision /interpretation of EIC shall be final.

Contractor shall start the job after getting intimation from EIC/Representative of EIC. Once the job is started, it shall be continued till completion and after completion of all the jobs; area must be cleaned / cleared up to the satisfaction of Engineer-in-Charge. In case of any unforeseen situation, Job can be stopped midway only after getting permission from EIC. Depending upon the criticality of the job.

The Contractor has to generate document and maintain record of executed jobs and take signature of the concerned Engineer for completion of the job on "Daily Activity Report" in the format introduced by EIC from time to time, failing which the same shall not be considered for billing. In normal circumstances, contractor has to get certifications of all the jobs done in the previous month by first week of present month.

The execution of the work may continue working during all times and weather conditions and no extra rate will be considered on jobs round the clock including General Holidays, National Holidays, May day etc as per the requirement of BCPL to be decided by Engineer-In-Charge and contractor should take this aspect into consideration while quoting his rates. No extra claim will be paid on any account.

For all the jobs, the transportation of equipment/spares/consumables/piping materials/structural to site and from one unit to the other, and from point to point, shall be in the scope of the contractor.

Cleaning of the area/equipment after completion of jobs and shifting of scraps from job location to nearest scraps bin in plant premises shall be in the scope of the contractor.

The Contractor shall ensure the quality of the jobs carried out. In case of repetition of jobs due to faulty workmanship/negligence attributable to contractor, same shall be carried out by the contractor without any additional cost implication to BCPL. If such repetitions are frequent, the "EIC" shall take suitable actions including deduction of cost of damages to the equipment / plant and cost of production losses etc in the best interest of the company.

30. **TOOLS, TACKLES, MACHINERY, CONSUMABLES:**

The contractor shall always keep available the required tools and tackles, welding / grinding machines, hydro-testing equipment, Gas cutting arrangements, lifting tools, all consumables like welding electrodes, DA & Oxygen cylinders, Argon Cylinder, Grinding wheels, cables, regulators, and other material as may be considered necessary by the ENGINEER-IN-CHARGE for timely and efficient performance of the jobs as spelt out in the scope of work.

31. **EXPERIENCES AND QUALIFICATIONS:**

- 31.1 For the smooth execution of the services contracted out herein, it is expected that the contractor will deploy personnel, if any, who has the proper qualification, experience and



- expertise as normally required under the norms followed and also meets the statutory requirements.
- 31.2 BCPL reserves the right to reject any one or all the personnel deployed by contractor on the basis of their inadequate qualification / experience, unsatisfactory performance, improper conduct and breaking discipline. If any replacement is sought by “ENGINEER-INCHARGE”, the same shall have to be arranged by the contractor within 24 Hours or as per instruction of “ENGINEER-IN-CHARGE”. In case of any dispute the decision of “ENGINEER-INCHARGE” shall be final and binding.
- 31.3 BCPL reserves the right to reject any one or all the personnel deployed by contractor on the basis of their performance, conduct and discipline.
- 31.4 For this job contractor shall provide skilled person on all days of week including Sundays and Gazette Holidays as per site requirement or as per instruction of EIC. Contractor shall also make arrangements for extra personnel, as and when required and as instructed by EIC, to assist in various operation and maintenance requirements.

32. **SUPERVISION OF WORK :**

- 32.1 The contractor himself is solely responsible for supervising his own manpower and he should be able to manage all site related activities while executing job at site, guide his personnel to carry out the work with proper safety and as per the instructions of the Engineer-In-Charge. Contractor shall also be able to make arrangements for additional/extra manpower assistance services as instructed by EIC as and when required.
- 32.2 All the personnel engaged by the contractor shall report to EIC or authorized representative of BCPL daily for allocation of job.
- 32.3 The contractor must be capable to arrange crews in case of emergency, immediately at site.

33. **SITE OFFICE:**

The contractor has to maintain his site-office at his own cost. Space for site office shall be provided by BCPL, if available.

34. **GUARANTEES AND WARRANTIES:**

All manufacturer’s warranties and guaranties for materials supplied by the CONTRACTORS shall be passed to the EMPLOYER. Further, guarantees/warranties for any work carried out to by specialized agencies such as water proofing, anti –termite etc. shall also be passed to the EMPLOYER. Proper storage of material is to be ensured so as to avoid deterioration of the material. Space for storage of material will be provided by BCPL (if available) and no extra payment will be made for making storage arrangements.

35. **SAFETY, SECURITY RELATED CLAUSES:**

- 35.1 The contractor shall provide personal protective equipment including Cotton cloth, safety shoes, safety helmet, Welding goggles, Grinding goggles, hand gloves, safety belts, safety net and rope ladders etc. as per prevailing safety norms, to all the personnel deployed for the execution of the mechanical maintenance jobs. Further, any guidelines/ regulation/ penalty etc with regards to this clause notified by HR/ F&S/ Central agency of BCPL from time to time during execution of contract shall be binding on the contractor.
- 35.2 Special safety equipment like breathing apparatus, gas masks etc. shall be provided by BCPL. Eyes’ protection kits will also be provided by BCPL, whenever required. Contractor will be responsible for accounting of the same.



- 35.3 All jobs are to be carried out under “Permit system” on receipt of the intimation from S/I or site engineer .The contractor has to cross check for ensuring availability of “Safety work permit” duly signed by process/safety personnel with mechanical S/I or site engineer before starting the jobs. The contractor has to comply all safety requirements for the execution of the job, as per instructions of Plant Safety Officer / "ENGINEER-IN-CHARGE". Further, any guidelines/ regulation/ penalty etc with regards to this clause notified by HR/ F&S/ Central agency of BCPL from time to time during execution of contract shall be binding on the contractor.
- 35.4 Contractor shall maintain first aid facility for his employees, however first aid available with BCPL will be provided by BCPL if available. Remaining expenditure towards treatment of contractor’s employee will be borne by contractor.
- 35.5 The Contractor shall have to take adequate security measure for security of their office, equipment, machinery, tool & tackles and material. In the case of theft or loss, BCPL will not be held responsible.
- 35.6 All the employee of contractor should observe the security and safety related rules and regulations introduced from time to time by BCPL management. Violation of this shall attract penalty as per SCC.

36. **SPECIAL NOTE FOR BIDDERS :**

- 36.1 The supervision of the personnel shall be done by the contractor/contracting firm through their authorized representative and the name of the supervisor shall be invariably intimated to the Engineer-In-Charge at the commencement of contract.
- 36.2 The contractor shall be solely responsible for disciplining the personnel deployed by him. Further, he shall ensure that none of his workers create any nuisance or indulge in anti-social and criminal activities during the entire period of contract. In case, anybody is found indulging in such activities, then he will have to be immediately removed without any prejudice to further necessary action as deemed fit.
- 36.3 The contractor/contracting firm shall pay the wages to the workers latest by 7th of the subsequent month at the rates as per the Minimum Wages Act and as notified from time to time in the presence of authorized representative of the Principal Employer i.e. Engineer-In-Charge (EIC). The Engineer In charge shall ensure that the contractor/contracting firm is making payment of wages to its labours not less than the wages notified by the appropriate authority from time to time.
- 36.4 The contractor/contracting firm shall be required to deposit contribution towards ESI, if applicable, or any other statutory payments to be made in respect of his workers well in time and submit a copy of challan to owner/Engineer In-charge in monthly/quarterly basis failing which BCPL will deduct from his bills the amount equivalent to such deductions along-with penalty as per the provisions of the applicable Act.
- 36.5 The contractor shall be required to furnish proof/copies of forms/returns as per the checklist attached hereto every month along with the monthly bills to the Engineer –In- Charge. The checklist- is indicative for monthly bills only and other forms/returns as required under various acts shall be required to be filed/maintained by the contractor himself regularly.
- 36.6 Notwithstanding anything contained elsewhere, BCPL may at any time its discretion terminate the contract or part of the contract after giving 07days notice in writing to the contractor without assigning any reason and upon such termination the BCPL shall have the right to remove the contractor’s materials from site and the contractor shall be paid price of the work satisfactorily completed in accordance with the provisions of this contract.

37. **CHECK MEASUREMENT-**

Refer relevant clause of ITB



38. **BILL WATCH SYSTEM:** BCPL has introduced Computerized Billing System whereby when the Bills are submitted in BCPL by a Contractor, a receipt number is generated. The Contractor can know the status of the Bill through BCPL's website online by referring the receipt number.

39. **ESCALATION:**

The quoted price will be inclusive of cost of all materials labour, tools, tackles, scaffolding etc required for the proper completion of jobs, all types of taxes and also duties imposed by state/ central/ local Government from time to time unless specified otherwise. The rates quoted shall be firm throughout the currency of the contract and are not subject to escalation due to any reasons whatsoever. No escalation is payable under this contract.

40. **TERMS OF PAYMENT:**

40.1 **DESIGN, ENGINEERING AND SUPERVISION PART:**

The design fee will be paid to the consultant based on the quoted rate as per SOR Item No: 4. The design fee shall be paid in stages as follows:

S.NO.	DESCRIPTION	% OF FEES
1	Preparation of sketch design/drawing on the basis of instruction & details obtained from BCPL and presentation to Management (If required) including preparation of preliminary cost estimate (if required) and submission of two sets of relevant documents to BCPL.	15% of SOR Item No. 4
2	Preparation of final plans/ drawings (including all services like internal electrification, sanitary, water supply, etc) and detailed estimate including submission of measurements, rates, design calculations etc. and submission of two sets of relevant documents to BCPL.	15% of SOR Item No. 4
3	After successful construction of foundation stage of all the buildings	15% of SOR Item No. 4
4	After successful construction of superstructure (only structural framing works) of all the buildings	15% of SOR Item No. 4
5	After successful completion and commissioning of all services related to the job	25% of SOR Item No. 4
6	Periodic site visits of the principal architect (3 nos. approximately) during execution of construction work from the office of the consultant for providing clarifications etc. (if required) incorporating changes as per site requirement and issue of revised drawings and successfully completion of work by the contractor. Consultant to submit one copy of original drawings (tracing), one copy of drawings in electronic form and specified copies of "As built drawings" after completion of the construction work.	15 % of SOR Item No. 4

40.2 After completion of indicated stage below, % fee shown against the stage shall be released to be consultant

Notes:



- i) Design Fee to be released shall be based on preliminary estimated cost / detailed estimated cost as may be the case up to the award of the works.
- ii) Design Fee paid on estimated cost to be adjusted with Tendered cost after the award of the work.
- iii) If the work has not been awarded then payment will be on the basis of the approved estimated cost.

40.3 **CONSTRUCTION PART:**

40.4 **Schedule of Payment for A / C Type quarters (for Item No. 1 & 2 of SOR)**

SI. No.	Milestone		Breakup of % of quoted	Remarks
1.	Completion of Foundations including tie beams i.e. Excavation, Backfilling, Compaction, foundation (as per design approved), Tie Beam, Earth/ sand filling under flooring, Retaining Wall			Pro-rata payment may be released based on plinth area
	1.1	Excavation	0.50%	
	1.2	Foundation System	15.00%	
	1.3	Tie Beam i/c earth/sand filling	2.50%	
3.	Completion of basic structure i.e. R.C.C. framework up to top of the building			Pro-rata payment may be released based on plinth area.
	3.1	On Completion till 1st Floor level	5.00%	
	3.2	On Completion till 2nd Floor level	5.00%	
	3.5	On Completion till Terrace Slab	5.00%	
	3.6	On completion of Terrace Tank, Mumty & water proofing of terrace slab	2.00%	
4.	Completion of finishing work i.e flooring, plastering , internal & External brickwork, interior & exterior painting, doors, windows, exteriors, driveway, landscaping etc.			Pro-rata payment may be released based on plinth area.
	4.1	Brick Work (Internal & External)	6.00%	
	4.2	Plaster (Internal) i/c putty	4.00%	
	4.3	Plaster (External) i/c putty	5.00%	
	4.4	Fixing of door windows	5.00%	



	4.5	All type of Flooring, skirting, dado	5.00%	
	4.6	Painting and finishing in all respect	5.00%	
5	On completion of all Internal Plumbing work.		5.00%	
6.	On completion of internal pathways, external plumbing connection, connections of sewer lines & water supply and landscaping works		5.00%	
7.	Installation of Systems in Various Electrical services			
	7.1	On completion of internal wiring	5.00%	Pro-rata payment may be released based on plinth area
	7.2	On completion of electrical fitting installation such as Switch Socket, internal light fitting, Fan, Cables and wires	5.00%	
	7.3	Completion of all internal and external electrical Services in all floors including connection with Sub-station and , fixing energy meters etc.	5.00%	
	7.4	On completion of Testing & Integrated Commissioning of all services and equipments.	5.00%	
8.0	Submission of completion certificate of the building, all statutory post-construction clearances, licenses and successful handing over		5.00%	
	Total		100%	

40.5 Schedule of Payment for Recreation Center Building (for Item No. 3 of SOR):-

SI. No.	Milestone	Breakup of % of quoted Rate	Remarks
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1.	Completion of Foundations including tie beams i.e. Excavation, Backfilling, Compaction, foundation (as per design approved), Tie Beam, Earth/ sand filling under flooring, Retaining Wall			Pro-rata payment may be released based on plinth area
	1.1	Excavation	0.50%	
	1.2	Foundation System	15.00%	
	1.3	Tie Beam i/c earth/sand filling	2.50%	
2.	Completion of basic structure i.e. R.C.C. framework up to top of the building			Pro-rata payment may be released based on plinth area.
	2.1	On Completion of columns and beams till roof level	8.00%	
	2.2	On Completion till terrace slab including truss & sheeting	14.00%	
	2.3	On completion of Terrace Tank, Mumty, Lift room & water proofing of terrace slab	2.00%	
3.	Completion of finishing work i.e flooring, plastering , internal & External brickwork, interior & exterior painting, doors, windows, exteriors, driveway, landscaping etc			Pro-rata payment may be released based on plinth area.
	3.1	Brick Work (Internal & External)	7.00%	
	3.2	Plaster (Internal & External) i/c putty	3.00%	
	3.3	Fixing of door windows	2.00%	
	3.4	All type of Flooring, skirting, dado	7.00%	
	3.5	Acoustics treatment, Wall paneling & False ceiling etc.	4.00%	
	3.6	External Wall cladding, Painting and finishing (Internal & External) in all respect	3.00%	
4	On completion of all Internal Plumbing works		3.00%	
5.	On completion of internal pathways, external plumbing connection, and landscaping works		7.00%	



6.	Installation of Systems in Various E & M Services			
	6.2	On completion of Fire Fighting works i.e. Fire Detection and alarm system etc.	2.50%	
	6.3	On completion of Electrical works such as Switch Socket, internal light fitting, Fan, Cables and wires etc.,	4.00%	
	6.4	On completion of HVAC work	4.00%	
	6.5	Completion of External Services i.e., connections of sewer lines & water supply, external electrification etc.	4.00%	
	6.6	On completion of Testing & Integrated Commissioning of all services and equipment.	2.50%	
7.0	Submission of completion certificate of the building, all statutory post-construction clearances, licenses and as-built drawing and successful closing of agreement		5.00%	
	Total		100%	

- 40.6 The Measurement of Work and payment thereof will be done as deliberated in measurement and payment methodology.
- 40.7 Contractor is required to submit monthly running bills in quadruplicate to ENGINEER-IN-CHARGE along with the copies of separate measurement sheets of executed jobs during previous month by first week of every month, for job certification and payment. The payment against monthly RA Bill shall be released based on the actual executed job, duly certified by EIC.
- 40.8 The payment shall normally be made within thirty days of submission of bill to ENGINEER-IN-CHARGE by Finance Department after statutory deductions.
- 40.9 As per present practice, RA bill will be processed after obtaining Site Clearance certificate from Operation & F&S department by the Contractor. However, any further guidelines/regulation/penalty etc with regards to this clause notified by HR/ F&S/ Central agency of BCPL from time to time during execution of contract shall be binding on the contractor
- 40.10 In case of any damage to BCPL's property occurs during the execution of work due to contractor or of his employees, deduction will be made from the total claims according to the total evaluated cost of the damaged article. The evaluation of the damage will be done at the sole discretion of BCPL as decided by the ENGINEER-IN-CHARGE.
- 40.11 The contractor shall submit a certificate along with each running bill that the contractor has obtained the EPF code no. (Code number to be indicated) and EPF contribution in respect of contractual labor up to the previous bill has already been deposited with the PF commissioner.
- 40.12 Final bill along with No claim certificate shall be submitted within 30 days of completion of contract period.
- 40.13 No mobilization advance shall be paid.



40.14 In no case payment of the bills shall be made if, the jobs are not certified by the site engineer from time to time.

41. **DOCUMENTS TO BE ATTACHED WITH BILL:**

Following documents are to be furnished along with the bill at the frequency as given in the table. Further, any guidelines/ regulation/ penalty etc with regards to this clause notified by HR/ F&S/Central agency of BCPL from time to time during execution of contract shall be binding on the contractor.

41.1 **PAYMENT OF RUNNING BILLS:**

100% payment shall be released within 30 days on completion of item / work as certified in the R.A bills as per clause no. 40 above. The R.A. bills shall be submitted in a printed form in quadruplicate along with soft copy of bill. Security deposit and other taxes as applicable shall be deducted from the bills.

Contractor has to furnish the below mentioned documents with the 1st RA bill:

- i. Power of attorney in the name of the signatory of the bill is required.
- ii. Copy of PAN card.
- iii. Copy of GST registration certificate.
- iv. Copy of Labour license for the said work
- v. Copy of provident fund registration certificate
- vi. Copy of registration under interstate migrant workers act. (if applicable)
- vii. Copy of registration under Assam building and other construction workers act.
- viii. Copy of last month EPF/ESI challan, duly certified that provident fund amount with respect to workers engaged for the work has been deposited.
- ix. Certificate of minimum wages act compliance.
- x. Copy of contractors all risk policy.
- xi. Copy of workmen insurance policy.
- xii. Copy of insurance policy of plant and machinery engaged for the job.

41.2 **PAYMENT OF FINAL BILL:**

- i. Contractor must submit his final bill within 60 days of completion of the work and payment of the final bill shall be made to the contractor within 30 days of the submission of the bill and after completion of all obligations under the contract.
- ii. Indemnity Bond of Rs. 100/- duly notarized from the Notary indemnifying BCPL from all the liabilities w.r.t the persons engaged by the contractor regarding payment of wages, Provident fund, Insurance and other payments etc.
- iii. No dues certificate from the contractor.
- iv. Any other document as per statutory requirement.
- v. No Demand Certificate: The contractor shall submit No Demand Certificate (NDC) for the net payment as finalized in the final bill before release of payment. The final bill shall be paid only on submission of NDC, otherwise final bill will be paid only after one year of submission of the same, as per BCPL records and no claim of contractor shall be entertained thereafter.
- vi. Any other document as per statutory requirement. The bills shall be submitted in a printed form in triplicate along with soft copy of bill. Security deposit and other taxes as applicable shall be deducted from the bills.

42. **INSURANCE & DAMAGE TO PROPERTY:**



Contractor will be responsible for insurance coverage of his personnel and BCPL will have no liability what so ever, on this account. Damage, if any caused to roads /building / structures/ machinery, equipment, property either moveable or immoveable during execution of work, the same will be made good by the contractor.

43. **WARRANTIES AND GUARANTEES**

All manufacturers' warranties & guaranties for the equipment supplied by the contractor shall be passed on the owner.

44. **ALTERATIONS, ADDITIONS AND OMISSIONS**

The architect can make a variation of the form, quality or quantity of the works or any part there-of that may in his opinion, be necessary and for that purpose or if for any other reasons it shall, in his opinion be desirable he shall have power to undertake in writing to the contractor to do and the contractor shall do any of the following:

- a. Increase or decrease in quantity of any work included in contract within limits and as per terms given in GCC.
- b. Omit any such work.
- c. Change the levels, lines, position and dimension of any part of the works.
- d. Execute additional work of any kind necessary for completion of works & no such variation shall in any way vitiate or invalidate the contract. But the value, if any of all such variation, shall be taken into account in ascertaining the amount of the contract price.

45. **OTHER CLAUSES:**

45.1 The Agency shall not sublet or assign any work in part or whole to any individual, proprietorship firm, partnership firm, private ltd. Company, etc. without prior written permission of BCPL.

45.2 The CONTRACTOR shall furnish the following to the ENGINEER-IN-CHARGE for approval before commencement of work:

- i. Samples of all material to be used in the item/work. Such samples shall be submitted before item/work is commenced in advance.
- ii. Fabrication/Shop drawings prepared by the Contractor based on the latest tender drawings, technical specifications and site requirement.

The material representing approved samples shall only be used for the construction and installation. CONTRACTOR shall procure materials as indicated in list of approved makes (if given) / or materials with ISI certification may also be used after approval of ENGINEER-IN-CHARGE.

45.3 The EMPLOYER may make any variation of the form, quality or quantity of the works or any part thereof that may, in his opinion, be necessary and for that purpose or if for any other reason it shall, in his opinion be desirable he shall have power to order in writing to the contractor to do and the contractor shall do any of the following:

- a) Increase or decrease in the quantity of any work included in the contract.
- b) Omit any such work.
- c) Change the character or quality or kind of any such work.
- d) Change the levels, lines, position and dimension of any part of the works, and



- e) Execute additional work of any kind necessary for the completion of the works and no such variation shall in any way vitiate or invalidate the contract. But the value, if any of all such variations, shall be taken into account in ascertaining the amount of the contract price.
- 45.4 Tenderer should quote all-inclusive prices including the liability of all types of taxes, duties and sales tax on works contract tax (if any) imposed by State/Central/Local Government bodies from time to time. Sales tax on works contract if applicable will be deducted at source as per the rules.
- 45.5 Income tax deductions as per Income Tax rules shall be made from CONTRACTOR's running account bills unless specific exemption has been obtained by the CONTRACTOR from the Income Tax Dept. and documentary evidence to this effect has been submitted to the EMPLOYER.
- 45.6 Sole responsibility rests with CONTRACTOR for procurement of all materials required for completion of work within the stipulated time.
46. **PHOTO GATE PASS/LABOUR PERMISSION/VEHICLE PERMISSION:**
The contractor shall arrange to make photo gate passes/labor permissions/vehicle passes etc. for his persons/labors/vehicles for working in site plant premises at his own cost as rules of the company.
47. **ARBITRATION CLAUSE:**
- 47.1 All disputes or differences, whatsoever, arising between the parties hereto pertaining to any part of the contract including its execution or concerning the WORKS or maintenance thereof this CONTRACT or to the rights or to liabilities of the parties or arising out or in relation thereto whether during or after completion of the CONTRACT or whether before or after determination, foreclosure or breach of the CONTRACT (other than those in respect of which the decision of any person is by the CONTRACT expressed to be final and binding) shall after written notice by either party to the CONTRACT be referred for adjudication to a sole arbitrator to be appointed by BCPL as hereinafter provided.
- 47.2 For the purpose of appointing the Sole Arbitrator referred to above, the Appointing Authority will send within thirty days of receipt of the notice, to the CONTRACTOR a panel of three names which are not connected with the work in question.
- 47.3 The CONTRACTOR shall on receipt of the names as aforesaid, select any one of the persons named to be appointed as a sole Arbitrator and communicate his names to the Appointing Authority within thirty days of receipt of names. The Appointing Authority shall thereupon without any delay appoint the said person as the sole arbitrator. If the CONTRACTOR fails to communicate his choice for appointment of an Arbitrator, the Appointing Authority shall do it on expiry of 30 days.
- 47.4 If the Arbitrator so appointed is unable to or unwilling to act or resigns or vacates his office due to any reason whatsoever, another sole Arbitrator shall be appointed as aforesaid.
- 47.5 The WORK under the CONTRACT shall however, continue during the Arbitration proceedings and no payment due or payable to the CONTRACTOR shall be withheld on account of such proceedings.
- 47.6 The venue of arbitration shall be Guwahati.
- 47.7 The award of the Arbitrator shall be final and binding on both the parties.



47.8 Subject to aforesaid the provisions of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under, and for the time being in force, shall apply to the arbitration proceeding under this clause.

48. **JURISDICTION:**

The CONTRACT shall be governed by and constructed according to the laws in force in INDIA. The CONTRACTOR hereby submits to the jurisdiction of the Courts situated at GUWAHATI for the purpose of disputes, actions and proceedings arising out of the CONTRACT.

49. **SUBMISSION OF ATTESTED COPIES OF CERTIFICATES/DOCUMENTARY EVIDENCES**

49.1 The bidders are required to submit the copy of PF certificates duly attested by Gazetted Officer/Officer of Public Sector Enterprises.

49.2 Further, the bidders are required to furnish the attested copy (ies) of Power of Attorney/Partnership Deed.

49.3 Bidders are required to furnish the attested copy (ies) of documentary evidence in support of meeting the Bidder's Eligibility Criteria.

49.4 Non-submission of the attested copies of the certificates/documents will render they bid non-responsive and liable for rejection.

50. **SUB LETTING OF WORK:** [QCBS]

50.1 **The contractor shall not sublet or assign any work in part or whole to any firm, individual, partnership firm, Pvt. Ltd., Company, Proprietorship firm etc without the prior written permission of BCPL. In case the contractor sublets or assigns the contract in part or whole** a list of short listed sub-contractors will be prepared by the government agency and submitted to BCPL for approval. Thereafter the selection of the successful bidder would be on the 'Quality and cost Based System (QCBS)' through a cross functioning committee formed by BCPL comprising of representatives from both BCPL and bidder (Main Agency). The basis of finalization of sub vendor will be as per the Eligibility and Evaluation Criteria as below:

50.2 Criteria for Evaluation of the performance of sub-vendor for Pre- Eligibility:

The bidder who has quoted the lowest price will be given a score of 100. The Bidders will be allotted score relative to the score of Bidder with lowest quote, which will be as below:

$$Fs=100 \times F1/F,$$

Where FS= the financial score of the Financial proposal being evaluated, F1 = the price of lowest priced Financial proposal and F = the price of Financial Proposal under consideration.

The score of technical proposals would be given 70 % weight age and that of the financial proposals would be given 30 % weightage. The Weighted total score of both the Technical and Financial proposals shall be used to rank the bidder.

The first ranked bidder is eligible for award of the work.

$$\text{Total Score} = 70\% \times Ts + 30\% \times Fs$$

Even though a bidder may satisfy the above requirements, the bidder would be liable to disqualification if he has:

- I. Made misleading false representation or deliberately supposing the information in the forms, statements and enclosures required in the pre-qualification document



- II. Record of poor performance such as abandoning work, not properly completing the contract, or financial failures/weaknesses etc. should be defined Empanelment of the PSUs shall be subject to through verification of their credential and information of similar works carried out/ in progress by them, through a Technical committee of experts of BCPL.

The score on technical evaluation out of 100 scores shall be awarded to the bidders as per following Table.

The score on technical evaluation out of 100 scores shall be awarded to the bidders as under				
Sl No	Sub head		Score	Remarks (Reverent information are to be furnished in tubular from along with certificate supporting documents)
1	Firm's previous experience in last five years (for b to e) construction project (only as a PMC service charges as detailed in EOI)		40	a) 2 score will be awarded for every 5 years of previous experience of PMC Work b) 2 score will be awarded for each of the completed project with total cost above Rs 12.5 crore and below Rs. 25 crore and 4 score will be awarded for each of the completed project with total cost of Rs. 25 crore and above. c) 2 score will be awarded for each of the ongoing project with payment received to the extent Rs. 10 crore and above d) 2 score for every 5 nos of regular engineers on roll
	A	No of years of Experience	20%	
	B	No of completed project	40%	
	C	No of Ongoing project (last 3 years)	20%	
	D	Strength of regular engineers on roll as on date of submission of EOI	10%	
	E	In house testing facility available with Agency (as per Form-1 Below)	10%	
2	Annual certificated turnover from project management consultancy during the last five years. As certificated by statutory Auditor/ Chartered Accountant.		10	a) Each eligible bidder with an average turnover more than Rs. 50 Crores but less than Rs 100 Crores shall be given a score of 2.5 marks. Bidders with an average turnover of more than Rs. 100 crores shall score the complete 5.0 marks b) Bidders who have net worth in pervious year between Rs. 50 to 100 crores shall score 2.5 marks. Bidders with net worth in previous year or more than Rs. 100 crores shall score the complete 5.0 marks.
		Turnover Figure (from PMC Work Service Charges with)	50 %	
		Net Worth in Pervious year	50 %	
3	Office of the organization in Assam State duly verifiable with proof		10	In case Yes. Bidder shall be given 10 marks. In case No bidders shall be given ZERO mark.
4	Works executed/ongoing in the Govt. Organization/Institute / universities in the state of Assam.		10	5 point will be awarded for each of the completed project/ ongoing work with total cost above Rs. 12.5 Crore and the



			below Rs. 25 crore. And 10 point will be awarded for each of the completed project/Ongoing works with total cost of Rs. 25 crore and above.												
5	Qualification and competence of the personnel to depute in BCPL Township project (qualification and experience. As per SCC clause No:11)	5	<table><tr><th>Criteria</th><th>Maximum Score</th></tr><tr><td>Project Manager</td><td>2</td></tr><tr><td>Civil Engineer</td><td>1</td></tr><tr><td>Planning Engineer</td><td>1</td></tr><tr><td>Electrical Engineer</td><td>0.5</td></tr><tr><td>Safety Officer</td><td>0.5</td></tr></table>	Criteria	Maximum Score	Project Manager	2	Civil Engineer	1	Planning Engineer	1	Electrical Engineer	0.5	Safety Officer	0.5
Criteria	Maximum Score														
Project Manager	2														
Civil Engineer	1														
Planning Engineer	1														
Electrical Engineer	0.5														
Safety Officer	0.5														
6	Presentation before Expert Panel	25	Presentation before expert/ selection panel in support of firm's credentials, understanding of the project, methodology, satisfactory answers to the queries of members of expert/ selection panel etc.												
Total Technical score (Ts)		100													

Note: Proper certificate is required in support of any statement made by the organization as above

FORM-1

Sl No.	Particulars	Name of the test
1	In-situ testing facility (Including non-destructive testing facilities)	
2	Laboratory testing facility	

51. **AFFIDAVIT:**

The bidder shall submit an affidavit duly notarized to the effect “that the document submitted by him are true and genuine and in case of any discrepancy noticed or observed at any stage the bidder shall be personally responsible not only for the damages or loss to BCPL, but also for criminal proceedings under the relevant laws”.

52. **PF REGISTRATION:**

Bidder must have their own Valid P.F. account / code no. from Regional PF commissioner and attested copy of the same are to be submitted along with the technical bid.

53. The deployed labour by the contractor shall be directly controlled / supervised / directed by the contractor himself or his representatives.

54. **QUALITY OF MATERIAL AND WORKMANSHIP**

54.1 The components of the installation shall be of such design so as to satisfactorily function under all conditions of operation.

54.2 The entire work of manufacture / fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to cause minimum transmission of noise and vibration to the building structure.

54.3 All equipments and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.



55. **PENALTY AGAINST VIOLATION OF SAFETY, HEALTH AND ENVIRONMENT RELATED NORMS:**

- 55.1 Against Violation of applicable Safety, Health and Environment related norms, a penalty of Rs.5, 000.00 per occasion.
- 55.2 Violation as above resulting in:
- 55.3 Any physical injury, a penalty of 0.5% of the contract value (maximum of Rs. 2,00,000.00) per injury in addition to Rs. 5,000.00 as in para 55.1.
- 55.4 Fatal accident, a penalty of 1% of the contract value (maximum of Rs. 10,00,000.00) per fatality is addition to Rs. 5,000.00 as in para 55.1.
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भाग – VI
SECTION – VI
कार्य का दायरा [एस ओ डब्ल्यू]
SCOPE OF WORK [SOW]



1 Brief particulars of the work:

- 1.1 Brahmaputra Cracker and Polymer Limited propose to construct additional infrastructure at BCPL Township, Barbaruah as detailed below in table. The location of site is adjacent to National highway (NH-2) about 1.5 km before reaching NH 15. The minimum plinth area and particulars are also indicated below. The execution will be done on the basis of drawings and schedule to be prepared by the the agency. The drawings and schemes shall be got approved by BCPL through the Engineer-in-charge. CPWD Specifications, relevant IS codes, National Building Code 2016 and other standard specifications will be followed in general except otherwise mentioned in bidding document. Samples of the materials of approved make or otherwise shall be got approved from the Engineer-in-charge before use in the work.
- 1.2 The scope of work includes Survey, Investigation, preparation of architectural design, structural design, and design of all buildings, required services, obtaining mandatory approvals from local bodies/ authorities required for commencing the work, execution of work & services and handing over the assets after making them habitable in all aspects. After completion of building & services a mandatory one year defect liability period is included in the scope of work. The scope is inclusive of topographic survey, subsoil investigation and all ancillary works. The cost of labour, material, tools and plants and machinery required for execution of the whole project as per Layout plan & detailed design and drawings to be approved, specifications etc. is within the scope of this work. The brief scope of work is as follows:

A. Buildings:-

Sl. No.	Building Names	No. of Units in one block	No. of Blocks	No. of Floors per block	Plinth area of one unit (in sqm)	Remarks
RESENDENTIAL BUILDINGS						
1	Type-A quarters	12	3	G+2	56.76	Staircase and circulation area to designed as per standard norms and prevelant bye laws
2	Type-C quarters	12	3	G+2	123.46	
NON-RESENDENTIAL BUILDINGS						
3	Recreation Center	1	1	Ground Floor with ceiling height of 9 metres	1200	

Note:

- For calculation of plinth area, rules for working out the plinth area from plans as given in the annexure III of DPAR-2012 shall be followed.
- Only 50% of the area of the balcony shall be considered in plinth area calculation irrespective of top being protected or not protected above.



- iii. The stilt, mumty and machine room will not be counted as storey. However it shall be considered for plinth area calculation.
- iv. Plinth area shall not include shafts open to sky. However the shafts/lift wells covered at top shall be counted at one floor level only.
- v. In above plinth area indicated no provision of covered parking has been taken. In Recreation Center separate provision for car parking for 40 cars and stand for 20 motor cycles shall be made while preparing the architectural & service drawings. However, the parking requirement of residential quarters necessary architectural & structural design & drawings shall be prepared as separate block, but the construction is beyond the scope of work. However, open paved parking shall be provided.
- vi. Detail survey and soil investigation has to be carried out by the successful bidder after award of work. No claim whatsoever will be entertain in future in this regard.

B. Electrical Works:-

Sl. No.	Type of work	Brief Scope of work
1	Internal & External Electrifications	Design, Supply, installation, testing and commissioning of Internal light, Fittings, Exhaust fan, Ceiling fan, Switch board, Floor Panels, Rising main, Energy meters, Lightening arrester for all buildings.
2	Fire Fighting, Fire Detection, Fire Alarm System	Design, Supply, installation, testing and commissioning of Fire Fighting, Fire detection, Fire alarm system as per the requirement of NBC 2016 with amendments, updated BIS codes, Fire bye-laws of Govt. of Assam and CPWD specifications for all buildings. The scope of work also include providing & laying of external fire ring main around the non-residential buildings (existing as well as under the scope of this work) and peripheral header connecting to existing fire hydrant etc.
3	Sub-station equipment & External Electrical Services	1) Design, Supply, installation, testing and commissioning of power supply to all buildings which includes LT Panels, cables to all LT Panels, Feeder Panels as per specifications given and data of present system already working at site and for all buildings. 2) Integration of sub-stations and upgradation of the capacity if required to existing facilities.
4	Air-conditioning	Design, Supply, installation, testing and commissioning of water cooled centrifugal chilling machine / plant with standby unit for Recreation center. It may include VRV / VRF type air conditioners as per suitability, functional requirement, specifications and Codes.

C. Site Development Works (including survey, investigation, design and construction)

- I. Roads and parking area:
- II. Approach road to the proposed building for construction with paver blocks as specified in technical specifications.
- III. Open area parking for 12 four wheelers and 10 two wheelers for each residential blocks.



IV. Open area parking for 40 four wheelers and 20 two wheelers for recreation center.

D. Storm water drains, sewer line, Rain water harvesting:

- Survey, investigation, design & construction of storm water drains, sewer line, rain water harvesting in the external area around the buildings for the area as indicated in Table-A given below is considered for construction including connection to the trunk sewer line. The construction of STP is beyond the scope of this work.
- Survey, investigation, design & preparation of cost estimate of sewerage networks, storm water drain & water harvesting of entire campus and connections with the existing system.

V. External water supply:

- Survey, investigation, design and preparation of cost estimate of water supply system of the whole campus (existing & new services) and suggesting improvement in existing system.
- Providing and laying water supply lines around the building and connection to existing main water line which is connected to existing overhead water tank.

VI. Landscape and Horticulture:

Survey, investigation, design & construction of Landscape works (both hard & soft) in and around the buildings, roads & services in the scope of this tender. While integrating with landscape of campus/already constructed buildings/campus, water bodies, the landscape consultant will also prepare necessary drawings, cost estimate, suggesting modifications, addition, alterations etc. in whole campus including previously constructed buildings However the scope of construction will be limited to the external area equal as per the Table-A below.

Minimum area to be considered for development and landscaping around the building

TABLE - A

Sl. No.	Name of Building	Minimum area to be considered for development and landscaping around the building /road excluding the footprint of the building (in sqm)
1.	A Type Quarters	2500
2.	C Type Quarters	3500
3.	Recreation Center	10000

VII. Other related facilities:

- Procurement and installation of all external signages.
- Provision for swimming pool, basketball court, Lawn tennis court and volley ball court is to be kept and landscaping works is to be done accordingly.

VIII. Other Items which are not mentioned above but are essential considering functional requirements and according to modern concept of building.

Note:

- All works has to be executed as per specifications provided in the bid document, CPWD Specifications Vol-I & Vol.II and National Building Codes 2016 (in case of difference if any, stringent / higher specification of the two shall be followed. In absence of CPWD Specification,



IS Codes, MoRTH Specifications, National Building Code 2016, Specifications, APWD Specifications or sound engineering practices shall be adopted as per order of precedence defined in the contract.

- ii. The scope of works & specification are given in general but they are not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and/ or described in the specifications, provided that the same can be reasonably inferred there from. There may be several incidental works, which are not mentioned in the contract document/specifications but will be necessary to complete the item in all respect. All these incidental works/ costs which are not mentioned, but are necessary to complete the work shall be deemed to have been included in the overall amount quoted by the contractor for various components of work. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation/change in actual working drawings. Also , no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-charge . Nothing extra shall be payable on this account.
- iii. In case, some of items are missing in the scope of work or specifications in the bidding documents same shall be taken from the specification mentioned in similar type of items mentioned for similar type of buildings in the scope of work or shall be executed as given in the CPWD Specifications, NBC-2016, IS Codes or according to sound engineering practices so as to make the building including related services fully functional. No claim what so ever may be entertained at later stage. All cost of providing and making buildings with services , landscape and horticulture works fully complete in all aspect unless specifically mentioned in the contract document and making buildings with services fully functional are included in the cost tendered for this work.

2 BRIEF DESCRIPTION OF ACTIVITIES:-

A. Planning:

- i. Survey, investigation (including soil investigation) and other related works & services.
- ii. Architectural planning of buildings & services including integration with existing buildings in the campus and obtaining all statutory / local body approvals required to start construction work as per plinth area given above. This also includes Environmental Impact Assessment & clearance and compliance, Traffic Impact assessment and design of merging/demerging of traffic etc.
- iii. The structural design of earthquake resistant RCC framed structure buildings & design of services including integration with existing services in the campus and getting approval from BCPL and vetting of drawings by approved institute (if required).
- iv. Design and construction of buildings, services, fittings etc. including dual plumbing system, energy saving LED lights etc.
- v. All building shall be designed for differently-able persons as per the latest norms of Central Govt.
- vi. All residential quarters should be planned in such a way that each quarter should face open space from three sides. For requirements regarding lighting and ventilations for different



building reference shall be made to part-8, Building Services, Section 1 of NBC code -2016. Notwithstanding the area of opening obtained through this clause minimum aggregate area of such opening excluding doors inclusive of frames shall be not less than 1/6th of the floor area of rooms.

B. Execution of Work:

- i. After approval from BCPL and getting approval from local bodies including necessary modifications as per the requirements execution of works as per the scope of buildings & services defined in the contract document, CPWD Specifications, NBC-2016, IS Codes, MoRTH Specifications and Sound Engineering Practices and handing over the assets after making them habitable in all respects.
- ii. Submission of completion plan of the building & services including getting approval/clearance from local bodies. Submission of building & services plan & drawings and other related documents both in hard copy and the soft copy (in Auto CAD and other software used for the purpose) after completion (i.e. 'as-built').
- iii. Clearance of site before Handing over of the facilities after fulfilling all the obligations under the contract.
- iv. The details of Construction are as under:

[A] RECREATION CENTER:

1. Recreation Center will be used for seminar, convocation and other large gathering in BCPL Township. The Recreation Center shall be designed and provided with state-of-the-art modern facilities for public functions performances etc. Recreation Center building (Ground Floor Level with approximate ceiling height of 9.0 meters) shall be earthquake resistant RCC framed structure constructed for plinth areas 1200 (approx) sqm accommodating seating arrangement for 1000 persons.
2. Minimum Plinth level shall be kept above the existing residential buildings as decided at the time of finalization of drawings. The minimum plinth height is to be considered as 0.45 m above the plinth level of existing residential buildings for bidding purpose. Storey height will be as per design requirement and NBC Norms. Height of adjoining rooms shall be minimum 3.60 m.
3. The ceiling of the main Recreation Center portion shall be either RCC or any other material such as Space truss with appropriate roofing material (suggested specification as per approval of Engineer-in-charge), may be provided for durability of structure for design period of RCC structures, thermally and sound insulated.
4. Provisions shall be kept for seating arrangement in the ground floor having two nos. of badminton courts [chairs will be temporarily placed in the badminton court area at the time of the required occasion] with required circulation space and the following arrangements shall be planned as per the norms.
 - i. One VIP lounge room.
 - ii. One common lounge cum restaurant
 - iii. One room for gatherings for ladies/children.
 - iv. Toilets & Water closets for gents and ladies.
 - v. One Green room



- vi. Provision of swimming pool is to be considered in the plot plan. However, the cost of construction is not included in the scope of work.
 - vii. One fully equipped gymnasium. However, the cost of equipment is not included in the scope of work.
 - viii. One room having sufficient space for indoor games like Table tennis, Carom, Chess etc.
 - ix. One First Aid Room.
 - x. One Library
5. Main Recreation Hall shall be a column-less structure. Stage will be elevated platform of minimum size 25 meter long & minimum 15 meter wide. It should be attached with at least two green rooms, equipment's rooms with all necessary equipment, racks /shelves etc. for multifunction activities.
 6. The Recreation Center floor will be provided with teak flooring and other acoustical requirement.
 7. All the walls shall be provided to acoustic wall paneling. False ceiling also will be provided with acoustic properties. Floor mounted chairs for high comforts will be provided.
 8. All necessary safety features shall be provided as per the norms.
 9. The external facade of the Recreation Center should be designed to make it modern outlook and features with state of Art Technology and the interior to create a state-of-the-art condition vis-à-vis lighting, acoustics, setting of the air conditioning, stage and overall ambience, break out rooms etc.
 10. SITC of HVAC system as per the design.
 11. All light fitting shall be provided with LED lights as per the design & specifications.
 12. Lighting in all rooms should be fully dimmable and adjustable to suit specific needs.
 13. Sufficient number and appropriate locations of exits to be provided for the total capacity as per the NBC 2016.
 14. The Recreation Center should be planned to achieve a quiet background, sufficient loudness, proper distribution, adequate blending and separation of sounds. A noise survey of the site should be made to ascertain a suitable sound reduction value for the structure so as to keep the indoor noise level to 20-25 DB, which is the acceptable value for Recreation Centers as per the National Building Code. The permissible reverberation times would be 1.0-1.25 when hall is full and 1.25-1.5 when the hall is empty, measured as per ISO 3382.
 15. The Building Regulations require that all spaces should meet the performance standards for indoor Ambient Noise level, Airborne and Impact Sound Insulation, and Reverberation Time as per India Building Code.
 16. Acoustic grade Insulation shall be used in Sound-rated walls and ceiling cavities. All walls should be designed with appropriate STC ratings based on Noise levels intrusion. Designs shall be efficient to reduce noise leakage through flanking paths. Full perimeter acoustic seals shall be used on access doors and sensitive windows.
 17. The ventilating system for the Recreation Center should be inaudible. The associated ductwork must be lined with sound absorbing materials. Fans/Compressors must be remotely located or isolated with resilient mounting. Special grilles or diffusers may be needed to assure silent air delivery and extraction. Dampers for balancing must be located upstream of the grilles or diffusers to avoid noise at the point of distribution
 18. Air Conditioning and Mechanical Ventilation (ACMV): A common centralised air-conditioning system for the Recreation Center Building is suggested. The air-conditioning system would be required to maintain comfortable indoor environmental conditions at all



- times of the year, and at all occupancy levels. The type of system / equipment to be selected with a view of reducing energy consumption of the air-conditioning system.
19. The goal of the ACMV system is to provide designated air-conditioning space in the proposed development with comfort cooling at 22 Deg.C $\pm$ 1 Deg. C with not more than 60% relative humidity (RH) and noise levels within the limits specified. Non air-conditioned areas shall be provided with adequate mechanical ventilation as per norms specified.
 20. Air-conditioning system shall be designed to meet the requirements of the National building Code of India (NBC), as well as local authorities. The ACMV system shall meet the requirements and standards of NBC, BIS, ASHRAE, SMACNA, ARI, ASME, and AMCA.
 21. The conditions to be maintained within the air-conditioned areas all through the year considering solar load, full occupancy, outdoor air (fresh air), lighting and equipment loads
 - are as follows:
 - Dry Bulb Temperature (DBT): 22 $\pm$ 1 Degree. Celsius (Deg.C) Relative Humidity (RH): Less than 60%.
 - Noise level: NC 20 or better for Recreation Centers, NC 35 or better for other areas
 22. All plumbing and sanitary lines exposed on outer face of wall shall be covered with GRC Jali of approved design & make or any other equivalent material as deemed fit by Engineer-in-charge. Adequate structural support system and provision for maintenance of services shall also be provided.
 23. In case hanging type plumbing system is adopted; false ceiling of appropriate water resistant type shall be provided after the approval of Engineer-in-charge.
 24. Green space: The Contractor shall develop park/s as Mandatory Green and comprising of greenery in various categories like shrubs, trees, plants, lawns etc according to the area requirement. Shrubs along the footpaths and lawns in the park area shall be planted to have an overall lush atmosphere. Necessary water supply line shall be provided at various places of green space from the main line, for proper maintenance of greenery. However, the horticulture works are not included in the scope of work.

[B] C-TYPE QUARTERS (3BHK) – 36 Nos.

1. 36 nos. residential quarters bldg G+2 in 3 blocks. This has to be constructed considering the architectural feature of adjacent building and keeping minimum plinth level same as adjoining Residential Quarters already constructed Plinth Level. The minimum storey height will be 3.15 metre.
2. On each floor 4 flats each of 3 BHK configurations per floor shall be provided in each block. One unit will have one attached toilet and one common toilet.
3. Kitchen platform be provided in L shape or two platforms to segregate the activities as wet and dry.
4. Each room be provided with wardrobe (Full height up to ceiling, minimum 1800 wide) with 4 shutters of 25mm block board & 19 mm BWP IS303 partition boards for racks and vertical separators. Hanger rod & drawers shall be provided as per approved drawings. One wardrobe of master bed room shall be provided with full size dressing mirror.
5. Provision/plumbing for storage type geyser of 25 litre capacity in each bath rooms shall be provided.



6. TV socket in drawing room + living room + master bed shall be provided.
7. Heater socket in all the rooms shall be provided.
8. Socket for induction plate/ oven/ mixture grinder / refrigerator in kitchen shall be made.
9. AC socket& power socket 15 A and 5 A + Ceiling Fan + Lighting fixtures in all rooms.
10. SS 316 curtain rods with bracket in all rooms.
11. Socket for EPBAX/ Net in each room shall be provided.
12. Stairs as per norms. The riser height of staircase should not be more than 150 mm and tread width not be less than 270mm.
13. Spacious shafts for sanitary pipes accessible from each floor for maintenance and garbage chute should be lined with Glazed tiles, water supply, fire fighting, electrical Rising main should have proper access from each floor in each tower.
14. Ramp and Stainless steel guide rail at entry in addition to steps for physically challenged person as per the norms shall be provided.
15. Approach road, landscaping, drainage around buildings shall be done as per approved drawing.
16. RCC Tank of appropriate capacity as per design requirement should be provided.
17. Provision for window AC in window space should be made either in the window or in the wall separately as per the architectural drawings to be approved. Similarly drainage arrangement for water coming out from AC should also be made.
18. In place of ventilator, small window is required in toilets.
19. Exhaust opening in kitchen / bath room to be provided with SS/ GI wire mesh to protect entry of insects.
20. No drainage pipe should pass through in side of flat.
21. Modular kitchen with laminated block board racks to be provided in each quarter.
22. Adequate light points & fan points shall be provided in each flat.
23. Each flat shall be provided with 1 no. Indian WC. All Bathrooms floor has to be sunken to avoid seepage of water/moisture in adjoining walls and or as required to accommodate a vertical trap W.C. Pan etc. for proper drainage of water.
24. In case hanging type plumbing system is adopted; false ceiling of appropriate water resistant type shall be provided after the approval of Engineer-in-charge.
25. Balcony area should be 25mm depressed and should be provided with vertical drain out pipe (Hubless CI pipe as per IS 15905).



26. All plumbing and sanitary lines exposed on outer face of wall shall be covered with GRC Jali or equivalent as approved by Engineer-in-charge. Adequate structural support system and provision for maintenance of services shall also be provided.

[C] A-TYPE QUARTERS (2 BHK) -36 nos.

1. 36 nos. residential quarters bldg G+2 in 3 blocks. This has to be constructed considering the architectural feature of adjacent building and keeping minimum plinth level same as adjoining Residential Quarters already constructed Plinth Level. The minimum storey height will be 3.15 metre.
2. On each floor 4 flats each of 2 BHK configurations per floor shall be provided in each block. One unit will have one common toilet.
3. Kitchen platform be provided in L shape or two platforms to segregate the activities as wet and dry.
4. Each room be provided with wardrobe (Full height up to ceiling, minimum 1200 wide) with 3 shutters of 25mm block board & 19 mm BWP IS 303 partition boards for racks and vertical separators. Hanger rod & drawers shall be provided as per approved drawings
5. Provision/plumbing for storage type geyser of 25 litre capacity in each bath rooms shall be provided. Each Bathroom shall be provided with mirror over each wash basin, SS Towel rod, two number corner glass shelf, SS rob hook, soap tray. Glass rectangular shelf above wash basin in bath room shall be provided.
6. TV socket in drawing room + living room + master bed shall be provided.
7. Heater socket in all the rooms shall be provided.
8. Socket for induction plate / oven/ mixture grinder / refrigerator in kitchen shall be made.
9. AC socket-20A & power socket 15 A and 5 A + Ceiling Fan + Lighting fixtures in all rooms.
10. SS 316 curtain rods with bracket in all rooms.
11. Socket for EPBAX/ Net in each room shall be provided.
12. Stairs as per norms. The riser height of staircase should not be more than 150 mm and tread width not be less than 270mm.
13. Spacious shafts for sanitary pipes accessible from each floor for maintenance and garbage chute should be lined with Glazed tiles, water supply, firefighting, electrical Rising main should have proper access from each floor in each tower.
14. Ramp and Stainless steel guide rail at entry in addition to steps for physically challenged person as per the norms shall be provided.
15. Approach road, landscaping, drainage around buildings shall be done as per approved drawing.



16. RCC Tank of appropriate capacity as per design requirement should be provided.
17. Provision for window AC in window space should be made either in the window or in the wall separately as per the architectural drawings to be approved. Similar drainage arrangement for water coming out from AC should also be made.
18. In place of ventilator, small window is required in toilets.
19. Exhaust opening in kitchen / bath room to be provided with SS wire mesh to protect entry of insects.
20. No drainage pipe should pass through in side of flat.
21. Modular kitchen with steel racks to be provided in each quarter as per the specification provided separately.
22. Adequate light points & fan points shall be provided in each flat.
23. Each flat shall be provided with atleast 1 no. IWC and other toilet with EWC. All Bathrooms floor has to be sunken as per required to accommodate a vertical trap W.C. Pan etc. for proper drainage of water.
24. Balcony area should be 25mm depressed and should be provided with vertical drain out pipe.
25. All plumbing and sanitary lines exposed on outer face of wall shall be covered with GRC Jali of approved design & make. Adequate structural support system and provision for maintenance of services shall also be provided.



भाग – VII
SECTION – VII
तकनीकी विनिर्देश
TECHNICAL SPECIFICATION

1. TECHNICAL SPECIFICATIONS:

The Technical specifications is to be read in conjunction with the Scope of work. A brief overview of the technical specifications is as follows.



MINIMUM ACCEPTABLE SPECIFICATIONS FOR RECREATION CENTER

Sl. No.	Items of Work	Specifications
1.0	Foundation & Plinth	As per Structural design & drawings to be approved.
1.1	Foundation & Super structure	Building shall be earthquake resistant RCC framed structure with suitable foundation system as per the details soil investigation report & design. Additional earth required for the work shall be procured from outside of campus.
1.2	Plinth Filling : a) Sand filling under floor: b) Concrete under floor/ footings :	With Local coarse sand 150mm thick 75 mm thick lean concrete below footing in M10. 100 mm thick RCC of grade M20 shall be laid under flooring work in ground floors with 8 mm dia @ 300 mm c/c both ways.
1.3	Railing in staircase/ Balcony railing	SS grade 304, 50 mm dia handrail with SS baluster as per approved drawing
1.4	Brick Work	All external walls will be full brick thick with Clay/ Fly ash brick and in internal wall if design permits half brick may be provided wherever required.
2.0	Door, windows and shutters :	
2.1	Door frame :	Recreation Center door: 2nd class kiln seasoned teak wood/engineered wood section frame. Other Door: Powder coated aluminium section (heavy) powder coated of minimum 50 micron thickness of ISI marked quality. All fittings will be aluminium. Double action hydraulic floor spring of approved brand conforming to IS: 6315 with double spring mechanism and door weight up to 125 kg along with all fittings to be provided. In Bathroom, UPVC extruded frame sections with wall thickness min. 2.0mm
2.2	Door shutters	Recreation Center: Acoustic double leaf door as per specifications along with fire and smoke seal for two hour fire rating has to be provided in Recreation Center. Other doors: Powder coated aluminium section (heavy) 35 mm thick ISI marked glazed shutters with etching film of approved pattern. Internal rooms where there is a security requirement factory made flush door shutter 35mm thick non-decorative. Glazing in the external doors will be as per sl. no. 3.1.



		35mm thick exterior grade UPVC flush door shutter in Bath/WC as per CPWD specification 2009.
2.4	Door fittings:	(i) Mortice latch & lock with 7 levers of approved make, SS 316 handle of standard make shall be provided in all shutters. (ii) SS-316 fittings in Acoustic door (iii) In Other door Powder coated aluminium Tower bolts (250x100mm), door stopper, door stay etc.
	Hydraulic Door Closer	As per IS: 3564 for door weight up to 150 kg and width up to 1000 mm with double speed .
3.0	Window	
3.1	Windows & Ventilators with frame :	All windows shall be of Powder coated aluminium Z section (heavy) powder coated of minimum 50 micron thickness of ISI marked quality. All fittings will be aluminium. Windows will be partly fixed & partly openable windows shutter will be provided with accessories such as locking arrangement friction hinges, handles etc. All windows will also be provided with M.S. grill.
	Glazing of windows and opening	Double glazed unit with low Emission value, heat, reflecting glass tempered outside and plain tempered glass inside of approved Make approved colour and quality with suitable locking arrangement will be installed. Opening of windows should be sufficient enough as per ECBC norms for day light during day time. The properties of glass should meet the ECBC & NBC 2016 requirement.
	Windows Sill & Window Jambs	18mm thick window sill with nosing with granite of suitable colour. All edges to be machine moulded..
4.0	FLOORING :	
4.1	Flooring	(I) In Recreation Center hall gallery, double glazed vitrified flooring of size not less than 600mmx600mm of uniform colour and texture. Carpet as per specification shall be provided to meet the acoustical requirement. (II) In Dias area teak wood flooring shall be provided. (III) Others rooms will be provided with double charged vitrified floor tiles of size 600x600 mm laid with adhesive and with spacers, groove filled with epoxy grout. IV) Staircase area: Granite flooring 18mm thick as per the approved design & pattern with V) Toilet/Kitchen – Antiskid ceramic floor tiles of size 300x300 mm laid with adhesive and with spacers, groove filled with epoxy grout as approved by Engineer –In-Charge and as per CPWD specification 2009. VI) Electrical room: Antistatic PVC flooring.
4.2	Skirting	Specifications for materials of skirting will be same as for flooring with matching joint pattern. 150 mm in rooms and 1000 in Corridors
4.3	Kitchen Platform Top :	i) 600 mm wide 18 mm thick Black granite platform over 75mm thick RCC slab provided in three side. All exposed edges shall have Black granite facia with matching specification and necessary moulding



		ii) SS 316 grade kitchen sink with drain board IS Marked of size 510x1040 mm, bowl depth 250 mm shall be provided in all kitchen with all accessories. iii) Full length wall mounted storage rack shall be provided above the kitchen slab at suitable height with Modular kitchen rack. Proper designing with introduction of glazed shutter to enhance the aesthetic with approved type storage rack of SS-316 to be provided below kitchen Slab. iv) Exhaust Fan be provided.
4.4	a) Dado :	(i) Kitchen dado with 18 mm thick granite of size not less than 900mmx600mm up to lintel level on all walls. (ii) Toilet - Glazed/digital/coloured rectified ceramic tiles of size not less than 600x300 mm up to 2100 mm height.
	b) Staircase: Landing, Tread and riser	Single length 18mm thick Granite flooring with suitable moulding fixed with dado/skirting up to 1000 mm height. The riser height of staircase should not be more than 150 mm and tread width not be less than 250mm.
4.5	c) Fully exposed columns inside the building	Fully exposed columns inside the buildings if proposed shall be fully covered with 18mm thick gang show cut granite wall lining (veneer work) of suitable colour & textures. In case of circular column SS sheet of 316 grade may be used to full height.
5.0	ROOFING :	
5.1	Roof structure	The Roof system of the main Recreation Center portion shall be Floor system as composite slab of RCC and metal deck (TR-60or Equivalent) supported on structural steel girders and beams and steel truss. Benefits of Composite Slab Slab depth required to achieve a fire rating as per NBC Norms. Trough stiffeners should be positioned to ensure central stud position, along with the truss system shall be designed and provided suitable for large column-less structure.
5.2	Roof Sheeting	a) Double skinned insulated roofing systems in colour coated galvalume using standard concealed fastening system(non-piercing) comprising of following layers :-a) Inner sheet profile shall have twin crests (spaced @ 20 ± 5 mm clear pan distance to each other), each of depth of 22 ± 7 mm, 230 ± 30 mm c/c effective pitch and covered width 1020 ± 40 mm. The end rib shall have anti-capillary groove to avoid any ingress of water through the side lap minimum pitch of 250mm c/c in 0.50mm TCT colour coated galvalume, AZ 150, in minimum 345 MPa YS. The sheets shall be fixed on to the main purlins with SDST screws with EPDM washers conforming to AS 3566 class 3 specifications. b) Vapour Control layer over Inner sheets; To prevent condensation occurring due to variance in temperature. c) Sub girt to be fixed in between two sheets to support the outer sheets on which the clips shall be fixed.



		d) Two layers of each 50mm thick Insulation to be laid in between the inner and outer sheets to protect the building from the external heat transferring inside the building. e) Outer sheets shall be concealed fastening systems made out of 0.50mm TCT Galvalume, AZ 150, in min 345 MPa Ys with specially formulated paint systems. The sheets shall be fixed on the special clips designed to take care of thermal movement. The prices shall include all cost towards labour, material handling, transport, laps, wastages, octroi, entry tax etc. No separate payment shall be made on any account whatsoever. The colour of the sheets shall be finalised by Engineer-in -Charge on submission of colour samples.
5.3	Expansion Joint	To be covered by stainless steel grade 316 plate of thickness 1 mm thick in vertical joint with polysulphide sealant. Expansion joint at roof should be as per CPWD specification & horizontal floor joint as SS tongue groove plate system as per approved drawing.
5.4	Water proofing treatment:-	A) On Roof : Primer + 2 coat of single component UV resistant flexible acrylic elastomeric coating + coba Integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc will be provided and laid over roof slab in proper slope of 1.5 %. The operations will be complete in shape as defined in DSR Item no. 22.7.1. (B) In Sunken part of Bathroom, kitchen: Water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen with slope of 2 %. Shall be provided as defined in DSR Item no. 22.3. In kitchen area of floor trap shall be provided.
5.5	Rain Water Pipes :	All the RWP pipes including fittings shall be Hubless centrifugally cast iron pipe as per IS: 15905 exposed on walls/ in the shafts to be executed as per CPWD specification 2009.
1 FINISHING :		
6.1	Plastering on walls (External) :	Cement plaster shall be provided as per CPWD specification. Walls treated with polymer modified exterior grade wall putty white cement based putty. Necessary grooves shall be provided at the junction of dissimilar materials and shall be neatly finished. Necessary drip course shall be provided in Chajja, Balcony, Projecting Roof, Beams etc.
	Plastering on walls (Internal):	Cement plaster shall be provided as per CPWD specification. Internal surface shall be made smooth with interior wall putty before painting work Necessary grooves shall be provided at the junction of dissimilar materials and shall be neatly finished.
6.2	Internal finishing:	i) Ceiling – Two or more coats of premium plastic emulsion paint with low VOC ii) Internal walls – Two or more coats of premium plastic emulsion paint with low VOC. In kitchen acrylic distemper is to be provided.
6.3	External finishing:	External – Two or more coats of premium Acrylic Smooth weather



		proof exterior paint. Quartz reinforced textured acrylic paint has to be provided in 30% of external areas. Combination of dry cladding of red sand stone/white sand stone alongwith structural glazing as per the approved pattern shall be provided in atleast 30% of the wall area.
6.4	Primer :	As per CPWD Specification for wood work and steel work.
6.5	Painting on wood / steel work :	Oil varnish paint & Synthetic enamel paint.
7.0	MISCELLANEOUS :	
7.1	Plinth Protection :	50 mm M-15 with floating coat of neat cement punning over 75mm thick bed of M-10 concrete and brick edging laid lengthwise to half brick depth.
7.2	CC in sunken portion :	CC 1:5:10 (1 Cement: 5 coarse sand: 10 brick aggregate 40mm nominal size) or any other suitable light weight material available in the market.
7.3	Footpath & Open Paved area	60 mm thick factory made ISI marked cement concrete Interlocking paver block of M30 grade as per Arch drawing and approved development plan (over 100 mm thick sub-base with cement concrete M10)
8.0	INTERNAL SANITARY WATER SUPPLY INSTALLATIONS :	
8.1	W.C. Pan	Floor mounted IWC in rest of WC with wall hung flushing cistern as per Architectural Drawings and as per CPWD Specification
8.2	Urinals	Sensor operated water saving half stalls urinals with sand blasted toughened glass partitions fixed with SS patch fittings.
8.3	Health faucet	SS faucet of approved make shall be provided in all WC
8.4	Wash basin	Counter sunk oval shape wash basin of size not less than 550x445x200mm to be provided in counter /platform of 18 mm thick machine moulded granite slab over RCC slab in all rooms and common toilet. Stainless steel Bottle trap must be provided in each wash basin. However in staff toilet normal wash basin may be provided.
8.5	Mirror	Full size /length float mirror over wash basin slab has to be provided with PVC base except in staff toilet where mirror of 600mmx450mm as per the CPWD specification shall be provided. Glass shelves of approved make shall be provided in the corner of the bathroom. In ladies toilet one mirror of appropriate size for viewing full height shall be provided at appropriate location.
8.6	Shelf	At least one granite shelf of size not less than 450mmx1200mm to be provided near the entry of common toilets for keeping belongings.
8.7	Soil & waste pipes fittings	All the sanitary pipes including fittings shall be uPVC pipes exposed on walls/ in the shafts to be executed as per CPWD specification



		2009.
8.8	House Manhole	Brick masonry with brick of class designation 75 of size 90x80x45cm with cast iron light duty cover and frame.
8.9	Pipe between house manhole & service manhole	uPVC pipes shall be provided for smooth /healthy drainage system with proper slope as per approved design.
8.10	Water supply line :	
	External pipe line upto 50mm	cPVC pipes as per approved plumbing drawing.
	Internal piping – Exposed on wall	cPVC as per approved plumbing drawing. Gun metal gate valve with CI wheel of approved quality.
	Internal piping & fittings– Concealed work	cPVC as per approved plumbing drawings.
8.11	Fittings :	CP brass bib cocks, stop cocks, pillar cocks, and shower rose etc. – 15/20mm. All CP fitting shall be single lever (Quarter turn) and other accessories of the same series/ class as approved. Wall mixture and basin mixture, shower rose. Angle valve and other fitting should be in CP brass of approved quality and of same series, SS gratings, towel rack, mirror above the basin and robe hooks are to be provided. The product shall be at least two level above the basic model
8.12	Terrace Tank	RCC water storage tank of adequate capacity with suitable water proofing treatment and glazed ceramic tiles as internal lining walls and floors.
9.0	EXTERNAL DEVELOPMENT (WATER SUPPLY)	
9.1	Pipe	cPVC pipes as per approved drawings
9.2	Fittings	Standard fittings (Heavy class)
10.0	SEWERAGE /DRAINAGE:	
10.1	Pipe :	uPVC pipes in vertical stacks, HDPE Pipes for horizontal discharge of required diameter including testing of joints as per approved design & as per CPWD Specification 2009.
10.2	a) Rectangular Manhole: Inside size 90cm x 80 cm with depth upto 45 cm. Inside 120 cm x 90 cm with depth 45 cm to 90 cm. b) Circular Manholes exceeding 0.90 m depth	Brick masonry manhole with CI covers & frame light duty as per CPWD specification 2009. Brick masonry manhole with CI covers & frame heavy duty as per CPWD specification 2009. Manholes of required dia. as per depth with brick wall (with Sewer Bricks) as per CPWD specification and corresponding DSR 2016 items with SFRC frame and covers HD-20. In sub-soil or adverse soil conditions, manholes & encasing pipes shall be as per approved credible structural design to avoid sinking and settlement of lines/manholes. Note: Orange colour safety foot rest of minimum 16mm thick plastic



		encapsulated complete as per IS: 10910.
11.0	NOMENCLATURE OF BUILDING ETC.	
11.1	Name plate:	On SS plate (grade 316) 250X150 MM with teak wood backing in ornamental edges fixed on top of entrance door, in front verandah, balcony and also on block ends showing the houses in each row and blocks.
12.0	External Glazing work:	DGU Glass panes of specified thickness properties as approved shall be provided in all glazed doors and windows as per ECBC and NBC 2016. Front area of building shall be fitted with Structural glazing shall be provided as per approved architectural drawings.
13.0	False ceiling:-	False ceiling in Recreation Center hall, balcony, rooms, common rooms, Dining area and in corridor to cover HVAC ducts shall be provided / fixed with false ceiling with acoustical panel as per the specifications. In other areas, 15 mm thick densified, regular edged, eco-friendly, light weight calcium silicate, false ceiling tiles of approved texture of size 595 x 595 mm as per DSR item No. 12.53 with the support system mentioned therein.
14.0	Walls paneling	In Recreation Center hall, Balcony, Gallery to have aesthetically appealing accoustical paneling of fabric panels/wooden panels of approved make shall be provided as per specification
15.0	Internal Road/Car Parking/Cycle Stand:-	Drawings for open paved parking shall be prepared by the agency as per the requirement of local byelaws and as per NBC 2016 and accordingly shall be provided during execution. Machine moulded M-30 kerb stone shall be provided along the edge of internal road constructed under this contract. Approach road from main road will be C.C. pavement 200 mm thick M-30 PCC laid over 150mm thick GSB with dowel bars as per MORTH specifications (fifth edition).

**APPROVED MAKE OF MATERIALS
(FOR CIVIL WORKS)**



Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the Architect/Engineer-in-Charge are listed below. However approved equivalent material and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market but only after approval of the alternate brand by the Engineer-in-Charge. (See also condition of contract).

Sl. No.	Materials	Approved make
1.	Acoustic Treatment for Auditorium main Ceiling & Under balcony ceiling:	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
2.	POP Ceiling: Plaster of Paris	CUSTOM
3.	Acoustic Treatment for Under Balcony Ceiling (Color – White):	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
4.	Acoustic Treatment for Stage Ceiling (Color - Black):	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
5.	Acoustic Treatment for Low Frequency Absorption for Audi both sides & back Wall:	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
6.	Acoustic Diffusion for side walls:	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
7.	Acoustic Treatment for Mid & High Frequency Absorption for Audi both sides & back Wall:	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
8.	Acoustic Treatment for Stage both Sides & Back wall:	ARMSTRONG/ OCEANZ ACOUSTICS/ HUNTER DOUGLAS/ ECOPHON/ DEXUNE
9.	Skirting:	CUSTOM
10.	Sound Isolation & vibration treatment for ceiling:	BSW/ OCEANZ ACOUSTICS/ REGUPOL
11.	Double skin insulated Roofing system :	MULTICOLOR/ KIRBY/ TIGER STEEL
12.	Stage Flooring:	CUSTOM
13.	Carpet flooring:	BLOOMSBURG/ OCEANZ ACOUSTICS/ STANTON
14.	Chairs for Recreation Center	GODREJ/ OCEANZ ACOUSTICS/ K QUINETTE / EUROTECH / HOF/ FETHERLITE.
15.	Acoustic Door	ICA ACOUSTICS/ OCEANZ ACOUSTICS/ ACOUSTICAL SOLUTION INC.
16.	Poly-Sulphide Sealent	PIDILITE, TUFFSEAL, SIKA, FOSROC.
17.	Damp Proof Material	IMPERMO, DURASEAL, ACCO-PROOF.
18.	Structural Steel Sections	TATA, SAIL, RINL, JINDAL STEEL
19.	Admixture	FOSROC, SIKA.



20.	White Cement	J.K. WHITE, BIRLA WHITE.
21.	Water Proofing Compound	TAPCRETE, CICO, ACCOPROOF, IMPERMO, FOSROC.
22.	Bitumen	INDIAN OIL, HINDUSTAN PETROLEUM, BHARAT PETROLEUM
23.	Locks/Latch	GODREJ, HARRISON, LINK.
24.	Laminates	DECOLAM, MERINO. CENTRUY, GREEN
25.	Wire Mesh	STERLING ENTERPRISES, TRIMURTY WELDED MESH.
26.	Prelaminated Particle Board	NOVOPAN, KITPLY, ARCHID PLY, CENTURY.
27.	Adhesive	PIDILITE, DUNLOP, SIKA, FOSROC.
28.	Epoxy Mortar	FOSROC, SIKA.
29.	Dash Fastners	HILTI, FISHER, CANON, BOSCH.
30.	Flush Door Shutters (Decorative/ Non Decorative).	SWASTIC, CORBETT, CENTURY, GREEN.
31.	Pvc Door Frame	POLYLINE, DUROPLAST, POLLYWOOD, ACCURA.
32.	Glass Frp Door Shutters	POLYLINE, DUROPLAST, CACTUS.
33.	Board & Plywood	DURO, KITPLY, CENTURY. GREEN PLY
34.	Hydraulic Door Closer/ Floor Spring	HARDWYN, GODREJ. DORMA
35.	S.S.Staircase Railing	CONNECT ARCHITECTURAL PRODUCTS PVT.LTD, JINDAL STAINLESS STEEL LTD., ICICH INDUSTRIES, ESSAR
36.	Fire Check Door	KUTTY DOOR, PROMAT,GODREJ
37.	Smoke Seal Strip	PROMAT/ASTRO FLAME.
38.	Door Closer Lock	INGERSOLL RAND/DORMA.
39.	Panic Exit Device	INGERSOLL RAND/MONARCH.
40.	Door Coordinator	UL LISTED /MONARCH.
41.	Anodised Aluminium Hardware (Heavy Duty)	HARDIMA, EVERITE, SIGMA (ISI MARKED).
42.	Tempered Glass	PILKINTON, SAINT GOBAIN, ASAHI
43.	Polyster Power Coating Shades	NEROLAC, BERGER, J&N.
44.	Aluminium Sections	JINDAL, HINDALCO, INDALCO.



45.	Friction Stay Hinges	EARL-BIHARI.
46.	Nuts, Bolts And Screws, Steel	KUNDAN.PRIYA ATUL.
47.	Epdm Gasket	HANU/ANAND.
48.	Structural Silicon	DOW CORNING/WACKER.
49.	Weather Silicon	DOW CORNING/WACKER.
50.	Glazed Ceramic Tiles	KAJARIA, SOMANY, JOHNSON, ORIENT BELL CERAMICS,
51.	Cement Concrete Tiles/ Hardonite Tiles	NITCO, NTC, HINDUSTAN, PODDAR.
52.	Vitrified Tiles Doubly Charged Quality	KAJARIA, JOHNSON (MARBONITE), RAK CERAMIC
53.	Tile Adhesive	CICO, PIDILITE, FOSROC, SIKA.
54.	Chequered Terrazo Tiles	NITCO , BHARAT, PODDAR.
55.	Clay Tiles On Roof	KENJAI , JOHNSON .
56.	Cc Pavers	NITCO-(ROCKARD), BHARAT-(NILSAN) REGENCY.
57.	Grass Paver	UNISTONE, ULTRA.
58.	Water-Proof Cement Paint	SNOWCEM, ASIAN.
59.	Synthetic Enamel Paint	BERGER, NEROLAC, ASIAN.
60.	Acrylic Emulsion Paint	ASIAN, BERGER, NEROLAC, ICI, DULUX.
61.	Vitreous China Sanitaryware	PARRYWARE, HINDWARE, JOHNSON & JOHNSON, ROCCA
62.	Fireclay Sink & Drain Boards	PARRY, SUNFIRE.
63.	Stainless Steel Sinks	NILKANTH, AMC, CORBA.
64.	C.P.Brass Fittings	JAQUAR, MARC, PARRYWARE, ROCCA , JOHNSON
65.	La(Ci) Pipes	RIF, NECO.
66.	G.I.Pipes	TATA, JINDAL, HISSAR.
67.	G.I.Fittings (Malleable Cast Iron)	UNIK, ICS.
68.	Gunmetal Valves	LEADER, SANT, ZOLOTO, KIRLOSKAR
69.	Stoneware Pipe & Gully Traps	PERFECT, PARRY.
70.	R.C.C. Pipes- (Np-2)	LAKSHMI SOOD & SOOD , JAIN & CO.
71.	Ms Pipes	KESORAM, ELECTRO STEEL.



72.	C.I.Double Flanged Sluice Valves.	KIRLOSKAR, IVC, BURN.
73.	Upvc Pipe	SUPREME, PRINCE, FINOLEX.
74.	Copper Tubes/Pipes	RAJCO, MAX FLOW ABC.
75.	Copper Fittings	YORKSHINE, IBP, BCONE.
76.	Ball Valves	ZOLOTO, IBP, ARCO.
77.	Unglazed Vitrified Tiles	JOHNSON- (ENDURA), SOMANY – (DURA STONE), REGENCY- (TILES).
78.	Spider Fittings	DORMA, SEVAX.
79.	Injection Grouting	FOSROC, SIKA.
80.	Non Metallic Surface Hardener	FOSROC, SIKA, PIDLITE.
81.	Soil, Waste & Vent Pipes & Fittings (A) Hubless Centrifugal Cast Iron	NECO OR EQUIVALENT.
82.	Butterfly Valves	AUDCO, ZOLOTO OR EQUIVALENT.
83.	False Ceiling Calcium Silicate	AEROLITE, SPINTONE, ARMSTRONG
84.	Glass Mosaic Tiles	BISAZZA, MRIDUL ENTERPRISES, OPIO MOSAICA, PALLADIO GLASS LTD, ITALIA GLASS PVT LTD, PIXEL MOSAIC (I) PVT LTD.
85.	Reinforcement Steel	SAIL, TATA, RINL, JINDAL STEEL & POWER, JSW STEEL.
86.	PPC/OPC Cement	ACC, ULTRATECH, LAFARGE, AMBUJA, JAYPEE CEMENT & STAR CEMENT,

All fitting shall have ISI nos. on its body wherever applicable

Note: - BCPL reserves the right to add or delete any materials and Brands in the list of approved materials/brands on the recommendations of Engineer-in-charge.

ACOUSTICAL SPECIFICATION FOR RECREATION CENTER



1.	Acoustic Treatment for Recreation Center main Ceiling & Under balcony ceiling:	Acoustic Treatment for Recreation Center Ceiling (Color-White): Providing & fixing in position, Acoustical ceiling tiles should have Humidity Resistance (RH) of 95%, NRC 0.90, Color - White, material - fibre glass, Fire Performance UK Class 0 / Class 1 in module size of 600 x 600 x 20mm with coating on the face of the tile, suitable for Green Building application, with Recycled content of 66% GW & 74% RW%. The tile shall be laid on 24 mm wide T - section flanges color White having rotary stitching on all T sections i.e. the Main Runner 1200 mm & Cross Tees 600 mm with a web height of 32mm and a load carrying capacity of 15.34Kgs/M2. All G.I. Sections have a Galvanizing of 120 grams per M2 (min. coating 0.3 mm) & passed through 500 hrs of Salt test. Grid system comprise main runner spaced at 1200mm centers securely fixed to the structural soffit with suitable hangers (to be approved by Engineer in charge) .Flush fitting 1200mm long cross tees to be interlock b/w main runners at 600mm centre perform 600 x 600mm module. Perimeter trim to be of wall angles size 3000 x 19 x19 mm scared to wall at 450mm max. Centers. Using T grid system including cost of required cut-outs, suspension system, decorative moldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. All Makes and models of all items/samples should be approved by the consultant prior to the installation. (Approx coverage 50% of the ceiling). Hangers spacing should not exceed 1200mm c/c both ways unless otherwise approved by Engineer in charge.
2.	POP Ceiling: Plaster of Paris	Providing & fixing false ceiling shall be 12 mm thick POP layer fixed on G.I. press metal section with suspension system which include G.I. hangers. Additional frame work shall have to be done for providing trap door, cutouts for A.C. grills, openings for smoke and heat detection and lights etc. All material to be approved by the Acoustic Consultant prior to installation. The exposed plaster of Paris surface shall be painted with approved shade of oil bond distemper paint. (Approx coverage 30% area of the ceiling)
3.	Acoustic Treatment for Under Balcony Ceiling (Color – White):	Providing & fixing in position, Acoustical ceiling tiles should have Humidity Resistance (RH) of 95%, NRC 0.90, Color - White, material - fibre glass, Fire Performance UK Class 0 / Class 1 in module size of 600 x 600 x 20mm with coating on the face of the tile, suitable for Green Building application, with Recycled content of 66% GW & 74% RW%. The tile shall be laid on 24 mm wide T - section flanges color White having rotary stitching on all T sections i.e. the Main Runner 1200 mm & Cross Tees 600 mm with a web height of 32mm and a load carrying capacity of 15.34Kgs/M2. All G.I. Sections have a Galvanizing of 120 grams per M2 (min. coating 0.3 mm) & passed through 500 hrs of Salt test. Grid system comprise main runner spaced at 1200mm centers securely fixed to the structural soffit with suitable hangers (to be approved by Engineer in charge) .Flush fitting 1200mm long cross tees to be interlock b/w main runners at 600mm centre perform 600 x 600mm module. perimeter trim to be of wall angles size 3000 x 19 x19 mm scared to wall at 450mm max. centers. Using T grid system including cost of required cut-outs, suspension system, decorative moldings / finishing-



		items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. All Makes and models of all items/samples should be approved by the consultant prior to the installation. (Approx coverage 50% of the ceiling). Hangers spacing should not exceed 1200mm c/c both ways unless otherwise approved by Engineer in charge.
4.	Acoustic Treatment for Stage Ceiling (Color - Black):	Providing and fixing of acoustic woodwool ceiling panels/tiles made with superfine wood fibres & gypsum, were patented with magnesite cement, edge profiles consist of Radius, Chamfer, Tongue-Groove & groove, having density 400kg/m ³ , Acoustic NRC = 0.90, eco-friendly, Fire Ratings - Non-combustibility At 750 oC, Thermal Resistance, Water Vapour Diffusion Resistant, size 600 x 600/ 1200/ 2400 x 25mm installed on Strut C-system requires unfastening and refastening of fasteners. All material to be approved by the Acoustic Consultant prior to installation. The Strut C-System framework consisting of Channels fixed at 600mm centres, Long edges chamfer and kerfed; Thickness 38 mm installed on Strut C-system, including cost of necessary scaffolding as required.
5.	Wall Paneling	
6.	Acoustic Treatment for Low Frequency Absorption for both sides & back Wall:	Acoustic Treatment for Low Frequency Absorption for both sides & back Wall: Providing and Fixing Channeled Woodworks perforated panels of width 128mm, thickness of 18mm and length 2440 mm or as required by the Architect/ acoustic consultant, made of a high density particle board substrate with a laminated facing as per the approved shade/ species & finish and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern 13/3 (12.8% perforation rate) . The panels shall provide a minimum sag resistance of RH90 and a fire rating 0.85 NRC. The edges of the panels shall be "tongue-and-grooved" to receive special clips for installation. Installation of Woodwork perforated panels on GI Channels of section 50mm x 50mm on GI pipe frame factored at Sl. No. 10. GI panels fixed horizontally at spacing of 600mm center to centre and screwed aluminum extruded keel for channeled wood works with 50mm thick thermal banded polyester non-woven wadding Mikron fiber of 1000 gm/sqm. The mikron fiber to be held in position with chicken wire mesh. The final color of the material and design horizontal or vertical to be approved by the consultant and the architect both to ensure the final looks of the installation is as per the design intended for, contractor to take a final sign off before start of work. The panels shall be mounted on special aluminum spines using clips. All Makes and models of all items/samples should be approved by the consultant prior to the installation.



7.	Acoustic Diffusion for side walls:	ACOUSTIC DIFFUSION FOR SIDE WALLS: Providing and fixing MLS design Diffusion panels of width 600 mm, length 1200mm and thickness 38mm, made of Rubber solid wood, density board, finish with original wood texture/ required color, frequency range 500Hz-4000Hz, Environmental performance grade: E1(GB). Installation of MLS Diffusion panels on GI Channels of section 50mm x 50mm on GI pipe frame factored at Sl. No. 10. GI panels fixed horizontally at spacing of 600mm center to centre and screwed aluminum extruded keel for channeled wood works with 50mm thick thermal banded polyester non-woven wadding Mikron fiber of 1000 gm/sqm. The mikron fiber to be held in position with chicken wire mesh. The final color of the material and design horizontal or vertical to be approved by the consultant and the architect both to ensure the final looks of the installation is as per the design intended for, contractor to take a final sign off before start of work. The panels shall be mounted on special aluminum splines using clips. All Makes and models of all items/samples should be approved by the consultant prior to the installation.
8.	Acoustic Treatment for Mid & High Frequency Absorption for Audi both sides & back Wall:	Acoustic Treatment for Mid & High Frequency Absorption for Audi both sides & back Wall: Providing and fixing Acoustical Wall Paneling' with square edges made of fiber glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and fire-resistant fabric with an option of colors as per the choice of the Architect/Acoustic consultant of size 2100x600 mm providing a minimum sound absorption level of 0.95 NRC. Installation of Acoustic Fabric panels on GI frame work of section 50mm x 50mm on GI pipe frame factored at Sl. No. 10. GI panels fixed horizontally at spacing of 600mm center to centre and screwed aluminum extruded keel for channeled wood works. 6mm thick BWP ply (Duro/ century / Green) to be fixed on the frame work. Wall panel impellers shall be fixed to the GI frame using self-taping screws. Wall panel impellers and construction adhesives as per the instructions lay down by the manufacturer. All makes and models of all items/samples should be approved by the consultant prior to the installation.



9.	Acoustic Treatment for Mid & High Frequency Absorption for Audi both sides & back Wall:	Acoustic Treatment for Mid & High Frequency Absorption for Audi both sides & back Wall: Providing and fixing Acoustical Wall Paneling' with square edges made of fiber glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and fire-resistant fabric with an option of colors as per the choice of the Architect/Acoustic consultant of size 2100x600 mm providing a minimum sound absorption level of 0.95 NRC. Installation of Acoustic Fabric panels on GI frame work of section 50mm x 50mm on GI pipe frame factored at Sl. No. 10. GI panels fixed horizontally at spacing of 600mm center to centre and screwed aluminum extruded keel for channeled wood works. 6mm thick BWP ply (Duro/century / Green) to be fixed on the frame work. Wall panel impellers shall be fixed to the GI frame using self-taping screws. Wall panel impellers and construction adhesives as per the instructions lay down by the manufacturer. All makes and models of all items/samples should be approved by the consultant prior to the installation.
10.	Acoustic Treatment for Stage both Sides & Back wall:	Acoustic Treatment for Stage both Sides & Back wall: Providing and fixing of magnesite bonded wood wool panels made with superfine wood fibres & gypsum, were patented with magnesite cement, edge profiles consist of Radius, Chamfer, Tongue-Groove & H-Spline groove, having density 400kg/m ³ , Acoustic NRC upto 0.90, eco-friendly, Fire Ratings - Non-combustibility At 750 oC, Thermal Resistance, Water Vapour Diffusion Resistant, size 600x600/1200/2400x25mm installed on Strut C-system requires unfastening and refastening of fasteners . The Strut C-System framework consisting of CC10 Channels fixed at 600mm centres, Long edges chamfer and kerfed for H-Spline; Thickness 38 mm installed on Strut C-system with H-Spline. To be fixed on GI frame work of section 50mm x 50mm on GI pipe frame factored at Sl. No. 10. GI Frame in fill with 50mm thick thermal banded polyester non-woven wadding Mikron fiber of 1000 gm/sqm. The mikron fiber to be held in position with chicken wire mesh. All material to be approved by the Acoustic Consultant prior to installation.
11.	Skirting:	SKIRTING: Providing & fixing 150 mm Skirting out of 12 mm thick BWP ply board of reputed make . with 1.5 mm laminate (Duro/century / Green) of approved shade, to be fixed as per the drawings on framework of 50 X 50 mm GI frame fixed at 300(v) x 600(h)mm (or wherever required as per design drawing) centre jointed with each other with GI cleats & drive all screws. The Framework to be supported on the wall at the interval of 1800mm centre to centre with 40x40x5mm angle cleats / fasteners of required length (MS anchor fasteners of size 65mm x 10 mm dia.) The entire work to be executed as per the drawings /Acoustic consultant, instructions of the Engineer-in-charge. All Makes and models of all items/samples should be approved by the consultant prior to the installation.



12.	Other Items	
13.	Sound Isolation & vibration treatment for ceiling:	Providing and Fixing in position, (7-10mm thick) high-density, polymer-based, synthetic soundproofing membrane/ mat, Rot-proof, Flexible, High elongation capacity, Hot and cold-resistant, sandwiched between the two (12.5mm thick) gypsum boards on GI formed section size 51.5x26x0.55 mm with GI channel size 45 x 15 x 0.9mm, center to center distance 1200mm. All material to be approved by the consultant prior to installation.
14.	Double skin insulated Roofing system :	Providing & fixing, Double skin insulated Roofing system comprising of Screw less profiled external sheets manufactured out of 0.5mm Colour Coated Galvalume Sheet. The sheet will have 550 Mpa yield strength, with zinc-aluminium alloy of AZ-150. The sheet shall have a hot dip metallic zinc-aluminium alloy coating of zinc (45%) & aluminium (55%) with total mass coating of 150gsm/sqm on both sides. The sheets shall have 430mm cover width 41mm high crest at 215mm maximum. Installation to be done using concealed clip system & no penetration of screws from the top (screw less system). The Inner sheet manufactured out of Perforated 0.50mm Colour Coated Galvalume Sheet. The sheet will have 550 Mpa yield strength, with zinc-aluminium alloy of AZ-150. The sheet shall have a hot dip metallic zinc-aluminium alloy coating of zinc (45%) & aluminium (55%) with total mass coating of 150gsm/sqm on both sides. The sheets shall have 1020mm cover width 30mm high crest at 250 mm wide span with special male/female side laps and anti-capillary feature to prevent leakages. The sub girts of out of 1.6mm G.I. Z shape would be fixed to inner sheeting on face side to purlin locations by means of Galvanized coated self-tapping fasteners (12-14x55) thru the crust. 50mm thick acoustic insulation of 24 Kg./cum density shall be fixed in between two sheets. The sheets shall be in custom lengths. All material to be approved by the consultant prior to installation.
	Flooring	



16.	Stage Flooring:	Providing and fixing 75x19 mm teakwood plank (900mm long) flooring with tongue and groove joints (concealed screwing and minimum length 1.5m) , comprising 75x12mm commercial ply 600mm x 600mm centre to centre support locations including providing and applying a coat of ready mixed primer and a coat of Fire resistant paint both of approved brand and manufacturer over exposed surfaces . Entire work to be done complete as per drawings, specifications and direction of Engineer-in-Charge including melamine polishing of teak wood planks after filling wood filler and sand papering up to smooth finish in natural colour. Stage Floor - Moulding : Providing and fixing 145x50mm teakwood moulding as per architect on the edges of stage wooden flooring including melamine polishing of teak wood planks after filling wood filler and sand papering up to smooth finish in natural colour. The final color of the material and design horizontal or vertical to be approved by the consultant and the CPWD both to ensure the final looks of the installation is as per the design intended for , contractor to take a final sign off before start of work All Makes and models of all items/samples should be approved by the consultant prior to the installation.
17.	Chairs	
18.	Chairs for Audirotium:	The consultant appointed by the contractor are required to provide complete scheme and drawings (also seating arrangements) for furniture, furnishings, sound system, electrical points etc. The provision of conduits, wiring and electrical points etc. are within the scope of work and these will be executed as per the approved drawings. Furniture & furnishings are beyond the scope of this work.
19.	Acoustic Doors	
20.	Acoustic Door [2500 (W) x 2400 (H)] Acoustic Door [2000 (W) x 2400 (H)] Acoustic Door [1800 (W) x 2400 (H)] Acoustic Door [1500 (W) x 2400 (H)] Acoustic Door [1200 (W) x 2400 (H)]	Providing and fixing of teakwood door double leaf door (nominal) along with fire and smoke Intumescent seal strip of size 12mm x 4mm for 120 minutes fire rated and Rw rating acoustic door with minimum 90mm thickness having infill of 45mm thick resin bonded fibreglass of 48 kg/m ³ density sandwiched by two 12mm thick non-combustible fire rated boards (edge to edge on internal hardwood frame) and clad with 6mm thick commercial ply facing and 3mm sheet rubber interlayer and finished with 1mm thick laminate/as per architect. The board shall be Resistant to vermin, mould growth, minor impact, abrasion and short term water attack and shall be off-white in color with a smooth surface suitable to receive most forms of decoration. The door closer and coordinator shall be as per approved drawing both for single and double doors. Includes external Automatic Drop down seals & perimeter seals (approved make - CCE italy/ Lorient).



**MINIMUM ACCEPTABLE SPECIFICATIONS FOR
A TYPE QUARTER & C TYPE QUARTER**

Sl. No.	Items of Work	Specifications
1.	Foundation & Plinth	As per Structural design & drawings to be approved.
1.1	Foundation & Super structure	Building shall be earthquake resistant RCC framed structure with suitable foundation system as per the details soil investigation report & design. Additional earth required has to be provided/procured from outside of campus including all lead and lifts. Foundation as per soil test report.
1.2	Plinth Filling : a) Sand filling under floor: b) Concrete under floor :	Local coarse sand 150mm thick 75 mm thick lean concrete below footing in M10. 100 mm thick RCC of grade M20 shall be laid under flooring work in ground floors with 8 mm dia @ 300 mm c/c both ways.
1.3	Railing in staircase/ Balcony railing	SS grade 304, 50 mm dia handrail with SS baluster as per approved drawing
1.4	Brick Work	All external walls will be full brick thick with Clay/Fly ash brick and internal wall half brick thick may be provided wherever required.
2.	WOOD WORK :	
2.1	Door frame :	2nd class teak wood/engineered wood section frame. External frame double rebated with mosquito proof wire mesh. In Bathroom, UPVC extruded frame sections with wall thickness min. 2.0mm
2.2	Door shutters	All doors 35 mm thick IS marked flush door solid shutters : (i) Outer Shutter shall be of flush door shutter with teak veneering on both side. Mosquito proof wire mesh teak wood shutter with grill of stainless steel 316 grade (ii) Inner shutter shall be 35mm thick factory made flush door shutter with teak veneering on outside and matching lamination inside (iii) 35mm thick exterior grade UPVC flush door shutter in Bath/WC as per CPWD specification 2009. (iii) 35mm thick exterior grade UPVC flush door



		shutter in Bath/WC as per CPWD specification 2009.
2.3	Wardrobe in rooms	Each Bed room be provided with wardrobe in BWP ply IS 303 + Block board shutter + 1 mm laminate externally + oil paint inside + shelf, locking arrangement handles and tower bolts will be of SS 316 of approved make, Hanger as per approved drawing.
2.4	Door fittings:	(i) Pull SS 316 handle of 250mm inside length of standard make shall be provided in the front gate, shutter of all quarters, married accommodation. In hostel SS 316 handle of 125mm shall be provided. (ii) Stainless steel fittings e.g. Tower bolts (250x100mm), door stopper etc. with SS 316 grade (iii) Stainless steel satin finish sliding door bolts will be provided. For schedule of fittings refer Appendix H, Page 361 of CPWD specification -2009 Vol. –I. (iv) SS 316 magic eye in front door of all quarters & married accommodation
2.5	Aluminium window:-	All doors of width more than 1.2m such as main entrance door of the building, dining, common room etc. shall be provided with powder coated aluminium section (heavy). All fittings will be aluminium powder coated of minimum 50 micron thickness of ISI marked quality. Double action hydraulic floor spring of approved brand conforming to IS: 6315 with double spring mechanism and door weight upto 125 kg along with all fittings to be provided. Glazing in the external doors will be as per sl. no. 12
3.	STEEL WORK :	
3.1	MS Grill in windows	All windows should be fitted with MS grill (minimum weight 12 kg per sqm) as per approved drawings.
3.2	Windows Frame:	All frames of external windows must have double rebates for fixing same material frame with mosquito proof wire mesh Aluminium extruded frame sections as approved by EIC.



	Glazing of windows and opening	Double glazed unit with low Emission value, heat, reflecting glass tempered outside and plain tempered glass inside of approved Make approved colour and quality with suitable locking arrangement will be installed. Opening of windows should be sufficient enough as per ECBC norms for day light during day time. The properties of glass should meet the ECBC & NBC 2016 requirement. Stainless steel (SS-316 grades) Friction stays 125 mm UPVC handle for each leaf.
3.4	Windows Sill & Window Jams	18mm thick projected window sill lining with green marble.
3.5	Curtain Rod and Bracket	In all type of qtrs. : Curtain Bracket with 25mm dia SS rod to be provided.
4.	FLOORING :	
4.1	Flooring	I) All rooms will be provided with double charged vitrified floor tiles of size 600x600 mm laid with adhesive and with spacers, groove filled with epoxy grout. II) Corridor & staircase area: Granite flooring 18mm thick as per the approved design & pattern with dado/skirting up to 1000 mm height (single slab) with matching stone lipping. III) Balcony, Kitchen, WC Bath - Antiskid ceramic floor tiles of size 300x300 mm laid with adhesive and with spacers, groove filled with epoxy grout as approved by Engineer –In-Charge and as per CPWD specification 2009. IV) Electrical room: Epoxy flooring.
4.2	Skirting	Specifications for materials of skirting will be same as for flooring with matching joint pattern. 150 mm in rooms.
4.3	Kitchen Platform Top :	i) 600 mm wide 18 mm thick granite platform over 75mm thick RCC slab provided in three side. All exposed edges shall have granite facia with matching specification and necessary moulding ii) SS 316 grade kitchen sink with drain board IS Marked of size 510x1040 mm, bowl depth 250 mm shall be provided in all kitchen with all accessories. iii) Full length wall mounted storage rack shall be provided above the kitchen slab at suitable height and Modular kitchen rack with approved type storage rack of SS-316 to be provided below kitchen Slab. iv) Exhaust Fan be provided.
4.4	Modular Kitchen	Modular kitchen of approx size 3.5 m x 2.25 m will be provided with following items of approved



		make and design ; cabinet work using 18 mm solid IS 303 BWP grade plywood with 1.00 mm thick laminate for shutters, drawers with hardware fittings for stainless steel kitchen trolley, stand work/kitchen work top using 16 mm thick colour granite and as consisting of following fixers :- (i) IS 303 BWP grade plywood with 1.00 mm thick laminate. (ii) All type of stainless steel, kitchen basket (6+1=7nos.) i.e. cup, perforated cutlery, bottle basket, plate basket, thali basket, multipurpose basket 02 nos. (iii) 150 mm stainless steel handle (22 nos) (iv) 500 mm channel for Basket. (v) Hinges Aluto (32 no.) (vi) Stainless steel sink with drain board (01 no). (vii) Hot and cold mixer (01 set) (viii) Exhaust Fan to be provided Kitchen should be designed as per approval of Engineer-in-charge.
4.5	a) Dado :	i) Kitchen platform with Glazed/digital/coloured ceramic tiles – 200x300 mm up to 2100 mm height upto lintel level from floor level. ii) Toilet - Glazed/digital/coloured ceramic tiles – 200x300 mm up to ceiling height.
	b)Staircase: Landing, Tread and riser	Single length 18mm thick marble flooring with suitable moulding fixed with dado/skirting up to 1000 mm height. The riser height of staircase should not be more than 150 mm and tread width not be less than 250mm.
4.6	c) Fully exposed columns inside the building	Fully exposed columns inside the buildings if proposed shall be fully covered with 18mm thick gang show cut granite wall lining (veneer work) of suitable colour & textures.
5.	ROOFING :	
5.1	Expansion Joint	To be covered by stainless steel grade 316 plate of thickness 1 mm thick in vertical joint with polysulphide sealant. Expansion joint at roof should be as per CPWD specification.
5.2	Water proofing treatment:-	A) On Roof : Primer + 2 coat of single component UV resistant flexible acrylic elastomeric coating + coba Integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc will be provided and laid over roof slab in proper slope of 1.5 %. The operations will be complete in shape as defined in DSR Item no.



		22.7.1. (B) In Sunken part of Bathroom, kitchen: Water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen with slope of 2 %. Shall be provided as defined in DSR Item no. 22.3. In kitchen area of floor trap shall be provided.
5.3	Rain Water Pipes :	All the RWP pipes including fittings shall be uPVC as per standard specifications
6.	FINISHING :	
6.1	Plastering on walls (External) :	Cement plaster shall be provided as per CPWD specification. Walls treated with polymer modified exterior grade wall putty white cement based putty. Necessary grooves shall be provided at the junction of dissimilar materials and shall be neatly finished. Necessary drip course shall be provided in Chajja, Balcony, Projecting Roof, Beams etc.
	Plastering on walls (Internal):	Cement plaster shall be provided as per CPWD specification. Internal surface shall be made smooth with interior wall putty before painting work Necessary grooves shall be provided at the junction of dissimilar materials and shall be neatly finished.
6.2	Internal finishing:	i) Ceiling – Two or more coats of premium plastic emulsion paint with low VOC ii) Internal walls – Two or more coats of premium plastic emulsion paint with low VOC. In kitchen acrylic distemper is to be provided.
6.3	External finishing:	External – Two or more coats of premium Acrylic Smooth weather proof exterior paint.
6.4	Primer :	As per CPWD Specification for wood work and steel work.
6.5	Painting on wood work & steel work :	Oil varnish over and under coat of flatting varnish on teak wood & decorative veneered surfaces and Synthetic enamel paint in other areas.
7.	MISCELLANEOUS :	
7.1	Plinth Protection :	50 mm M-15 with floating coat of neat cement punning over 75mm thick bed of M-10 concrete and brick edging laid lengthwise to half brick depth.
7.2	CC in sunken portion :	CC 1:5:10 (1 Cement: 5 coarse sand: 10 brick



		aggregate 40mm nominal size) or any other suitable light weight material available in the market.
7.3	Pathway & Open Paved area	60 mm thick factory made ISI marked cement concrete Interlocking paver block of M30 grade as per Arch drawing and approved development plan (over 100 mm thick sub-base with cement concrete M10)
8.	INTERNAL SANITARY WATER SUPPLY INSTALLATIONS :	
8.1	W.C. Pan	<u>In A type quarters</u> IWC shall be provided as per Architectural Drawings and as per CPWD Specification <u>In C type quarters</u> One Wall hung EWC and one IWC shall be provided in toilets.
8.2	Flushing system	Flush valve or in-built cistern
8.3	Health faucet	CP faucet of approved make shall be provided in all WC
8.4	Wash basin	Counter sunk oval shape wash basin of size 550x445x200 to be provided in counter /platform of 18 mm thick granite over RCC slab in all rooms and common toilet. Stainless steel Bottle trap must be provided in each wash basin. <u>In C type quarters</u> Extra pedestal wash basin have to be provided either in Dinning area or in Balcony as per approved architectural drawing. However in staff toilet normal wash basin may be provided.
8.5	Mirror	Full size /length mirror over wash basin slab has to be provided with PVC base as per the CPWD specification shall be provided. Glass shelves of approved make shall be provided in the corner of the bathroom.
8.6	Soil & waste pipes fittings	All the sanitary pipes including fittings shall be uPVC as per approved standards.
8.7	House Manhole	Brick masonry with brick of class designation 75 of size 90x80x45cm with cast iron light duty cover and frame.
8.8	Pipe between house manhole & service manhole	HDPE pipes of PN-8 shall be provided for smooth /healthy drainage system with proper slope as per approved design.
8.9	Water supply line :	



8.10	External pipe line upto 50mm	cPVC pipes as per approved plumbing drawing. of approved quality.
8.11	Internal piping – Exposed on wall	cPVC pipes as per approved plumbing drawing. of approved quality.
8.12	Internal piping & fittings– Concealed work	cPVC pipes as per approved plumbing drawing. of approved quality.
8.13	Fittings :	CP brass bib cocks, stop cocks, pillar cocks, and shower rose etc. – 15/20mm. All CP fitting shall be single lever (Quarter turn) and other accessories of the same series/ class as approved. Wall mixture and basin mixture, shower rose. Angle valve and other fitting should be in CP brass of approved quality and of same series, SS gratings, towel rack, mirror above the basin and 6 robe hooks are to be provided. Hand shower shall also be provided in A & C type qtrs. The product shall be at least two level above the basic model.
8.14	Terrace Tank	RCC water storage tank of adequate capacity with suitable water proofing treatment and glazed ceramic tiles as internal lining walls and floors.
9.	EXTERNAL DEVELOPMENT (WATER SUPPLY)	
9.1	Pipe	cPVC pipes.
9.2	Fittings	Standard fittings (Heavy class)
9.3	Sluice Valve	C.I. sluice valve (with cap) complete with bolts & nuts, rubber insertion etc.
9.4	Chambers for : a) Sluice Valve b) Fire Hydrant	Brick masonry chambers of appropriate size with C.I. surface box complete as per specification.
9.5	Thrust Blocks	CC 1:2:4 (1 Cement : 2 Coarse sand : 4 graded stone agg. 20 mm nominal size)
10.	SEWERAGE /DRAINAGE:	
10.1	Pipe :	uPVC pipes as per CPWD Specification 2009.
10.2	a) Rectangular Manhole: Inside size 90cm x 80 cm with depth upto 45 cm. Inside 120 cm x 90 cm with depth 45 cm to 90 cm. b) Circular Manholes exceeding 0.90 m depth	Brick masonry manhole with CI covers & frame light duty as per CPWD specification 2009. Brick masonry manhole with CI covers & frame heavy duty as per CPWD specification 2009. Manholes of required dia. as per depth with brick wall (with Sewer Bricks) as per CPWD specification and corresponding DSR 2016 items with SFRC frame and covers HD-20. In sub-soil or adverse soil conditions, manholes & encasing pipes shall be as per approved credible structural design to avoid sinking and settlement of lines/manholes. Note: Orange colour safety foot rest of minimum



		16mm thick plastic encapsulated complete as per IS : 10910.
11.	NUMBERING OF HOUSES ETC.	
	Numbering of houses :	On SS plate (grade 316) 250X150 MM with teak wood backing in ornamental edges fixed on top of entrance door, in front verandah, balcony and also on block ends showing the houses in each row and blocks.
12.	False ceiling:-	Gypsum false ceiling as per CPWD specification.
13.	Internal Road/Car Parking/ Cycle Stand:-	Machine moulded M-30 kerb stone shall be provided along the edge of internal road constructed under this contract.
		Approach road from main road will be C.C. pavement 200 mm thick M-30 PCC laid over 150mm thick GSB with dowel bars as per MORTH specifications (fifth edition).
		Drawings for open paved parking shall be prepared by the agency as per the requirement of local byelaws and as per NBC 2016 and accordingly shall be provided during execution.

ESTABLISHING SITE LABORATORY AND TESTING OF MATERIALS

Equipment for conducting necessary tests (as per CPWD Specifications 2009 Volume-I) shall be provided and installed at site in the well-furnished site laboratory by the agency at his own cost. The following laboratory equipment should be in general or as and when required be set up at site laboratory: -

Sl. No.	Equipment	Numbers
1.	100MT compression testing machine, electrical-cum-manually operated)	2
2.	Slump cone, steel plate, tamping rod, steel scale, scoop	10
3.	Vicat Apparatus with Desk pot	3
4.	Megger & earth resistance tester	3
5.	Pumps and pressure gauges for hydraulic testing of pressure	2
6.	Weighing scale platform type 100 Kg	2
7.	Graduated glass measuring cylinder of various capacity	As per requirement
8.	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm, 2mm, 12.5mm]	10 sets
9.	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600microns; 300 microns & 150 micron, with lid and pan]	10 sets
10.	Sieve Brushes and sieve shaker capable of 200mm and 300mm dia sieves, manually operated with timing switch assembly	2
11.	Cube moulds size 70mmx70mmx70mm	30



ब्रह्मपुत्रक्रेकरऔरपालीमेरलिमिटेड
(भारतसरकारकाउपक्रम)
Brahmaputra Cracker and Polymer Ltd.
(A Government of India Enterprise)

12.	Cube moulds size 150mmx150mmx150mm	90
13.	Ultrasonic Test Equipment (For concrete)	3
14.	Hot air oven temp. Range 50°C to 300°C-sensitivity 1 degree	3
15.	Electronic balance 600gx0.1g., 10kg and 50 kg	10
16.	Physical balance weight up to 5 kg	5
17.	Digital thermometer up to 150oc	4
18.	Air Content of concrete testing machine	3
19.	Measuring jars 100ml, 20ml, 500ml	10 Nos each size
20.	Gauging trowels 100mm & 20mm with wooden	12
21.	Spatula 100mm & 20mm with long blade wooden handle	12
22.	Vernier calipers 12" & 6" size	1 each
23.	Digital PH meter least count 0.01mm	6 each
24.	Digital Micrometer least count. 0.01mm	6 each
25.	Digital paint thickness meter for steel 500 microns	3
26.	GI tray 600x450x50mm, 450x300x40mm, 300x250x40mm	3 Nos each
27.	Electric Motor mixer 0.25 cum capacity	4
28.	Rebound hammer test digital rebound hammer	4
29.	Screw gauge 0.1mm-10mm, least count 0.05	10
30.	Water testing kit	3
31.	Motorized sieve shaker	3
32.	Pruning Rods 2 Kg weight length 40 cm	4
33.	and ramming face 25 mm ²	
34.	Extra Bottom plates for 15 cm cube mould	30
35.	Standard Vibration Table for gauging the Cubes	2
36.	Pocket concrete penetrometer 0 to 50kg/sq.cm	10
37.	Concrete temperature measuring	4
38.	Thermometer with Brass protection sheath	2
39.	Mortar Cube vibrator	2
40.	Dial type spring balance preferable with zero correction knob capacity 100 kgs. Reading to ½ kg.	2
41.	Counter scale capacity 1 kg and 10 kg	2
42.	Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 20	5 each
43.	gm, 100 gm	
44.	Brass Weight of 50 gm, 2 gm, 10 gm, 5 gm, 2 gm, 1 gm	5 each
45.	Measuring cylinder TPX or Poly propylene capacity 100 ml, 500 ml, 250 ml, 100 ml	5 each
46.	Pyrex, corning or Borosil beakers with	10 each
47.	cover capacity 500 ml, 20 ml, 50 ml	
48.	Wash Bottles capacity 500 ml	12
49.	Thermometers 1-100 degree centigrade / max. and Min/ Dry and wet with table	6
50.	Set of box spanner ratchet	3
51.	Hammer 1lb& 2lb	10 each
52.	Distance metre (of 100 metre)	10
53.	Hacksaw with 6 blades	10
54.	Measuring tape (5 metre)	10



55.	Depth gauge 2 cm	6
56.	Shovels & Spade	10
57.	Steel plates 5 mm thick 75x75 cm	10
58.	Plastic or G.I. Buckets 15 ltr, 10 ltr, 5 ltr	10 each
59.	Wheel Barrow	12
60.	Floor Brushes, hair dusters, scrappers, wire brush, paint brushes, shutter steel plat oil, kerosene with stove etc.	12 each
61.	Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.	As per requirement
62.	Concrete Core cutter Machine	2

EQUIREMENTS OF PLANT AND EQUIPMENT AT SITE

Sl. No.	Equipment	Numbers
1.	Builders hoist	2
2.	Centralized concrete batch mix plant of minimum capacity 30 cum per hour (fully automatic with computer control)	As per requirement
3.	Excavator cum loader (JCB 3D model or equivalent).	2
4.	DG set of minimum capacity 62.5 KVA.	2
5.	Mini batching plant (6 cum. /hr.).	2
6.	Transit mixers.	As per requirement
7.	Concrete pump	1
8.	Needle Vibrators.	5
9.	Screed leveler.	15
10.	Plate Vibrator	10
11.	Automatic Ring making machine(Reinforcement)	As per requirement
12.	Dumper/Tipper	2
13.	Reinforcement bending machine.	1
14.	Reinforcement cutting machine.	1
15.	Power driven earth rammer (Soil compactor).	1
16.	Total station.	1
17.	Water tanker (Minimum capacity of 5000 liters)	1
18.	Welding machine 400 Ampere	3
19.	Screener for coarse sand and fine sand	8
20.	Centrifugal mono block water pump minimum capacity 1 HP	5
21.	Drilling machine	5 Nos.
22.	Shuttering with necessary props	3000 sq.mt.
23.	Double steel scaffolding and staging materials	3000 sq.mt.
24.	Air compressor	3Nos.
25.	Floor grinding/polishing machines	4 Nos.
26.	Granite cutting machine	3 Nos.
27.	Ceramic tile cutting machine	2 Nos.
28.	Granite polishing machine	1Nos.
29.	Granite hand polishing machine	1 Nos.
30.	Desktop Computers / Laptop for recording measurements at site.	1 Nos.
31.	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	As per requirement



Note:

1. The above list is only indicative and not exhaustive. The Bidder may be required to deploy more T&P as per requirement of work.
2. All the above plants & equipment are to be deployed as and when required or directed by Engineer-in-Charge.

SPECIFICATION FOR OTHER SERVICES:

- (a) CPWD General Specifications for Electrical works Part - VI -Fire Alarm System-1988.
- (b) BIS Code of practice (IS: 2189 – 1988) for Selection, Installation and Maintenance of Automatic Fire detection and Alarm system amendments up to date.
- (c) CPWD General Specifications for Electrical works Part - I Internal - 2013 as amended up to date.
- (d) CPWD General Specifications for Electrical works Part - II External - 1994 as amended up to date.
- (e) The contractor shall carry out the work as per requirements of the Patna Fire Services and Local body regulations as applicable.
- (f) The Contractor shall prepare detailed working drawings in coordination other Architectural and Services drawing and get these working drawings approved by the Engineer-in-charge. The approval of such drawings by the Engineer-in-charge shall be from the point of view of assisting the Contractor in Coordination of Services other agencies and shall not absolve the contractor from his absolute and indivisible responsibility on performance and operation of his installation.

(g) COMMERCIAL AND ADDITIONAL CONDITIONS

1. GENERAL

- 1.1. This specification covers Design, manufacture, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation, commissioning putting into operation of sub-station equipments consisting of HT panels, transformers, bus ducts, LT panels, HT cabling etc. and final testing of sub-station equipments at BCPL Township.
- 1.2. The work shall be executed as per CPWD General Specifications for Electrical Works Part-I, II & IV, as amended upto date, relevant I.E. Rules, BIS/IEC and as per directions of Engineer-in-charge. These additional specifications/conditions are to be read in conjunction above and in case of variations, specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these additional specifications and conditions.

1.3. GUARANTEE

All equipments shall be guaranteed for a period of 12 months, from the date of taking over the installation by the department, against unsatisfactory performance and/or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forth repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case of replacement or repair requiring more than 7 days, the agency shall temporarily install the equipment so that the system become operational. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-Charge in this regard shall be final & binding on the contractor.



- 1.4. **The contractor shall guarantee among other things, the following:**
- Quality, strength and performance of the material used as per manufacturers standards.
 - Safe mechanical and electrical stress on all parts under all specified conditions of operation.
 - Satisfactory operation during the maintenance period.
- 1.5. **ACCEPTABLE MAKES OF VARIOUS EQUIPMENTS**
The acceptable makes of various equipments/components/accessories have been indicated in “Acceptable Makes”.
- 1.6. **DATA MANUAL AND DRAWINGS TO BE FURNISHED BY THE CONTRACTOR**
- The contractor shall furnish detailed technical literature, pamphlets and performance data for appraisal and evaluation of the offer.
 - The successful contractor would be required to submit the following drawings before first milestone for approval.
 - General arrangement drawing of the equipment like HT panels transformers, bus duct, LT panel etc. in the sub-station building, complete dimensions for LT panel & Bus duct. The tenderer shall also give dimensions, details of LT panels and Bus duct and got tested at CPRI for fault stand capacity of 31 MVA for 1 Sec.
 - Details of foundation for the equipment and the weights of assembled equipment.
 - Cable/bus duct layout between HT panel boards, transformers & LT panel etc.
 - Any other drawings necessary for the job.
- 1.7. The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipment regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts, catalogue etc. all in triplicate.
2. **EXTENT OF WORK**
- 2.1 The work shall comprise of SITC of all equipment complete with entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipment covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation all layout charts whether or not those have been mentioned in details in the tender document in connection this contract as this is a turnkey job.
- 2.2 The HT/LT cables shall be brought at site after taking correct measurements since no joint shall be permissible.
- 2.3 In addition to supply, installation, testing and commissioning of sub-station equipment, following works shall be deemed to be included in the scope of work to be executed by the tenderer as this is a turnkey job-
- Minor building works necessary for installation of equipment, foundation, making of



opening in walls or in floors and restoring them to their original condition/finish and necessary grouting etc. as required. The opening in the RCC floor/Slab shall have to be carried diamond core cutting machine and resealing shall have to be done by the tenderer.

- b) All supports for over head bus ducts, cables and MS channels for erection of panels & transformers etc. as are necessary.
- c) Testing of PTs/CTs for metering and protection purpose and relay calibration and setting.
- d) Getting CEA/Electrical inspector's inspection done and obtaining approval for energizing the installation. However, necessary fees for inspection shall be borne by the Department.

3. INSPECTION AND TESTING

- a) All major equipments i.e. HT panel, transformers, bus duct, LT panel, feeder pollars etc. shall be offered for initial inspection at manufacturers works. The contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The successful tenderer shall give advance notice of minimum two weeks regarding the dates proposed for such tests to the department's representative to facilitate his presence during testing. Equipments will be inspected at the manufacturer/Authorized Dealers premises, before dispatch to the site by the contractor if so desired by the Engineer-in-Charge.
- b) Copies of all documents of **routine and type** test certificates of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer-in-Charge and consignee.
- c) After completion of the work in all respects the contractor shall offer the installation for testing and operation.

4. COMPLIANCE REGULATIONS AND INDIAN STANDARDS

- 4.1 All works shall be carried out in accordance relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification at his own expenses by the tenderer. In particular, the equipment and installation will comply the following:

- I. Factories Act.
- II. Indian Electricity Rules and Indian Electricity Act.
- III. B.I.S. & other standards as applicable.
- IV. Workmen's compensation Act.
- V. Statutory norms prescribed by local bodies like CEA, Power Supply Co., etc.

- 4.2 After completion of the installation, the same shall be offered for inspection by the representatives of the Central Electricity Authority/Local Government Electrical Inspector. The contractor will extend all help including test facilities to the representatives of CEA/Local Government Electrical Inspector. The observations of CEA/Local Government Electrical Inspector will be attended by the contractor. The



installation will be commissioned only after getting clearance from CEA/Local Government Electrical Inspector.

- 4.3 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment all accessories in accordance currently applicable statutory regulations and safety codes.
- 4.4 Successful tenderer shall at his own expenses, arrange for compliance statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed directly or indirectly on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of **Rs. 1000/-** for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.
- 4.5 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year from the handing over of the installation.

5. INTERPRETING SPECIFICATIONS

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

- (a) Technical specifications
- (b) General specifications.
- (c) Relevant BIS or other international code in case BIS code is not available.
- (d) Drawing (if any)
- (e) APPENDIX – VI
- (f) LIST OF INDIAN STANDARDS (IS)

IS : 374 - 1979	Ceiling fans and regulators (3 rd revision)
IS : 694 - 1990	PVC insulated Electric cable for working voltage upto and including 1100 volts.
IS : 732 - 1989	Code of practice for electrical wiring and installation
IS : 1255 - 1983	Code of Practice for installation and maintenance of Power Cables up to and including 33 KV rating (Second Revision)
IS : 1258 - 1987	Bayonet lamp holders(Third revision)
IS : 1293 - 1988	Three pin plugs and sockets outlets rated voltage upto and including 250 volts and rated current upto and including 160 amps.
IS : 1554 - 1988 (Part - I)	PVC insulated (Heavy Duty) electric cables for working voltages up to and including 1100 volts.
IS : 1646 - 1982	Electrical installation fire safety of buildings (general) Code of practice.
IS : 1651 & 1652 - 1991	Stationary cell and batteries, lead acid type
IS : 1885 - 1971	Glossary of items for electrical cables and conductors
IS : 1913 – 1978	General and safety requirements for fluorescent lamps luminaries Tubular.
IS : 2071 - 1974 - 76	Methods of high voltage testing
IS : 2309 - 1989	Protection of building and allied structures against lightning



IS : 2551-1982	Danger notice plate.
IS : 3043 - 1987	Code of practice for earthing.
IS : 3480 - 1966	Flexible steel conduits for electrical wiring.
IS : 3837 - 1976	Accessories for rigid steel conduit for electrical wiring.
IS : 4146 - 1983	Application guide for voltage transformers
IS : 4615 - 1968	Switch socket outlets.
IS : 5133 – 1969 (Part -I)	Boxes for the enclosure of electrical accessories.
IS : 5216 - 1982 (Part-I)	Guide for safety procedures and practices in electrical work.
IS : 5424 - 1969	Rubber mats for electrical purposes.
IS : 5578 & 11353-1985	Marking and arrangement of bus bars
IS : 7098 - 1985 (Part - II)	Cross linked polyethylene insulated PVC sheathed cables. For working voltages from 3.3 KV upto and including 33 KV
IS : 8130 - 1984	Conductors for insulated electric cables and flexible cords
IS : 8623 -1977 (Part -I)	Factory built assemblies of switch gear and control gear for voltages up to and including 1000 V AC and 1200 V D C.
IS : 8623 - 1980 (Part -II)	Bus Bar trunking system
IS : 8828 - 1996	Miniature Circuit Breakers
IS : 9537 - 1981	Rigid Steel Conduits for electrical wiring (Second Revisions)
IS : 10810 - 1988	Methods of test for cables.
IS : 11171 – 1985	Specifications for dry type transformers
IS : 12640 - 1988	Earth Leakage Circuit Breakers
IS : 13947-1989	Moulded Case Circuit Breakers
IS : 13947 - 1993	Degree of protection provided by enclosures for LV schgear and control gear.
IS : 13947 - 1993	General requirement for schgear and control gear for voltage not exceeding 1000 Volts.
IS : 1651 & 1652 1991	Stationary cells and batteries lead acid type.



(Air-conditioning)

Scope of work:

This part involves design, supply, installation, testing and commissioning of HVAC / VRV / VRF / Split type air conditioners in academic buildings, lecture hall, central library, auditorium and guest house as per suitability, functional requirement, CPWD specifications and additional specification attached. Liabilities for rectification of defects shall be for one year.

Only the Recreation Center is to be air conditioned as detailed below:

Water cooled Screw Chiller with VFD chilling machines (2 W + 1 Standby) and Air Source Heat pump for main hall and Air Handling Units. Air Cooled Heat pumps with water cassette units (cooling& heating) for other areas. All areas except toilets shall be air conditioned.

COMMERCIAL & ADDITIONAL CONDITIONS:

1. GENERAL

- 1.1 This specification covers manufacturer, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation, final testing, commissioning, putting into operation & maintenance of plant for one year including one year guarantee period complete for the following work.
- 1.2 The work shall be executed as per CPWD General Specifications for Air Conditioning Works-2017, relevant IE rules, relevant IS and as per directions of Engineer-in-Charge. These additional specifications & conditions are to be read in conjunction above and in case of variations, specifications given in the Additional Specifications & Conditions shall apply. However, nothing extra shall be paid on account of these as the same are to be read along schedule of quantities for the work.

Any specifications which are not mentioned in this document shall be as per CPWD guidelines and approval of CPWD engineer in charge.

2. Running in Period, Guarantee and Payment Terms.

2.1 Running in Period & Date of Acceptance.

After the installation work has been completed by the contractor, he will conduct tests and make adjustments as may be necessary to satisfy himself that the plant is capable of continuous running. There after he will offer to the department a running-in period of 7 days subject to a minimum aggregate of 120 hrs. at his cost. All the equipment shall be run by rotation. The equipment will be operated and a log book of all parameters will be maintained during this the period. The contractor will be free to carry out necessary adjustment during this period out stopping the plant. The equipment will be said to have successfully completed the running-in-period, if no break down or abnormal/unsatisfactory operation of any machinery occurs during this period. After this the equipment will be made available for beneficial use.

- 2.2 After the equipment has operated out any major breakdown/trouble for the above specified running-in-period it shall be taken over by the department subject to guarantee clause mentioned below. This date of taking over of equipment after trouble free operation during the running-in-period shall be the date of acceptance.



- 2.3 Any loss of refrigerant or oil during the running in period shall be made good by the contractor free of charge.
- 2.4 Capacity test chiller and other major equipment may be carried out as and when outside conditions become stabilized.

Seasonal testing may be carried out as & when outside conditions become suitable.

3.0 Guarantee.

- 3.1 The contractor shall guarantee the complete system to maintain the specified conditions under all conditions of ambience and internal loads. Also the inlet/outlet temperatures at the specified flow of water in the chiller unit shall be guaranteed.
- 3.2 All equipments shall be guaranteed for a period of 12 months from the date of acceptance and taking over of the installation by the Department against unsatisfactory performance and/or breakdown due to defective design, material, manufacture, workmanship or installation. The equipment or component or any part thereof so found defective during the guarantee period shall be repaired or replaced free of cost to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk & cost of the contractor. The decision of Engineer-in-charge in this regard shall be final.
- 3.3 Any leakage of refrigerant and/or oil due to defective design, manufacture, workmanship or installation during the guarantee period shall be made good by the contractor free of charge.
- 3.4 When the first major seasonal test can not be carried out on commissioning of the installation due to any reason not attributable to the contractor, the installation will be handed over to the Department for beneficial use after completion of successful running in test of 7 days subject to a minimum aggregate of 120 hours. The balance payment shall be released to the contractor on his furnishing a bank guarantee shall be valid for a period of 6 months. However it will be extended till the successful completion of the major seasonal test. This bank guarantee shall be independent of the one, if furnished for performance guarantee.
- 3.5 The summer or Monsoon Test shall be considered major seasonal tests for the purpose of the above payment terms.
- 3.6 The following shall be considered major seasonal test for the purpose of the above payment terms:
- a. Air-conditioning system : Summer or Monsoon

3. Power Supply.

- 4.1 Power Supply shall be arranged by contractor and shall make his own arrangement.
- 4.2 The power supply for testing and commissioning of the complete installation shall be arranged by contractor. For this purpose, the power supply shall be given at the main incoming units of the main electrical panel through U. G. Cable, or bus trunking arrangement in the AC Plant Room, AHU's & FCU. Power supply for testing or individual component during installation is the scope of contractor.



All arrangement of connecting main panel or power distribution to the various equipments as indicated in scope of work shall be done by the contractor.

The contractor shall not use the power supply for any other purpose than that for which it is intended for. No major fabrication work shall be done at site. Power shall be used only for welding/cutting works etc. required for execution of work. The power supply shall be disconnected in case of such default.

4.3 Water Supply and Drainage

4.4 Water supply shall be arranged by the contractor.

5. Data Manual and Drawings to be furnished by the tenderer.

5.1 The tenderer shall furnish along the Technical Bid, detailed technical literature, pamphlets and performance data for appraisal and evaluation of the offer. Computerized selection of chilling unit and blowers shall be furnished.

6. After award of work.

The successful tenderer would be required to submit the drawing as per Pare 1.18.2 of CPWD Specification HVAC Works below schedule within 90 days of award of work for approval before commencement of installation.

The successful tenderer shall furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipments regarding installation, adjustments operation and maintenance i/c preventive maintenance & trouble shooting together h all the relevant data sheets, spare parts catalogue and workshop procedure for repairs, assembly and adjustment etc. all in triplicate.

7. Extent of work.

7.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation all layout charts whether or not those have been mentioned in details in the tender document in connection this contract.

7.2 Minor building works necessary for installation of equipment, foundation, making of opening in floors and restoring to their original condition, finish and necessary grouting etc. as required.

7.3 Operation & maintenance (Routine & Preventive) for one year from date of completion.

7.4 The work is turnkey Project. Any item required for completion of project but left inadvertently shall be executed in the quoted rates.

8. Inspection and testing:

Initial inspection at work and final inspection and testing at site shall be carried out as per chapter 17 of CPWD General Specification of HVAC work 2017. If desired, the department



shall be free to carry out any Sample Test of the material like GSS sheet etc at the approved lab as decided by the department. The material should conform to the relevant BIS. The Contractor should submit the Sample of all such material in advance so that it should not create any hindrance in the progress of work.

8.1 Compliance Regulations and Indian Standards, Indemnity & Insurance.

8.2 Conformity statutory Acts, Rules, Standards and Codes.

- I. All components shall conform to relevant Indian Standard Specifications, wherever existing, amended to date.
- II. All electrical works shall be carried out in accordance h relevant regulation, both statutory & those specified by the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 amended up to date. They shall also conform to CPWD General Specifications for Electrical Works, Part-I: Internal, 2005 and Part-II: External, 1994 and Part IV (Sub-Station) 1983 and HVAC 2017 as amended to date.

9. Safety Codes and Labour Regulations.

- I. All relevant safety procedures outlined in the safety codes as specified in CPWD Specification for HVAC Work & Other CPWD Specification shall be complied .
- II. In respect of all labour employed directly or indirectly on the work for the performance of the air conditioning contractor's part of the work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty of Rs.200/- for each violation. In addition the Engineer- in-Charge, shall be at liberty to make arrangements and provide facilities as aforesaid to recover the cost from the contractor.
- III. The contractor shall provide necessary barriers, warning signals and others safety measures while laying pipe lines, ducts etc. or wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance h the Indian Law and regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

10. Verification of correctness of Equipment at Destination.

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

11. The contract value shall be inclusive of custom duty, CVD etc. on imported equipments if any & also inclusive of local sales tax (VAT) on indigenous equipments/materials and inclusive if octroi duty, service tax or any duties free of fees levied by government or any public or local bodies .
12. The contractor shall provide all equipments, instruments, labour and such other assistance required by the Engineer-in-Charge for measurement of the works, materials etc.
13. Ventilation and pressurization arrangements shall be applicable as per code or requirement
14. All roofs of air conditioned areas shall be insulated with under deck insulation.



Equipment installation layout and accessories shall be as per good engineering practice, latest ISHRAE Hand book and approval of engineer in charge.

15. Order of Precedence:

In case of any contradiction in conditions, nomenclature or any other parameter, the following order of precedence shall be observed.

1. Technical/ Commercial terms and conditions.
2. CPWD specifications.
3. National Building Code-2016.
4. I. S. Codes.
5. State PWD Codes.
6. Any other standard.
7. Sound Engineering Practices

16. Additional technical specifications:

A. BASIS OF DESIGN:

Geographical Data:

PLACE	Bcpl Township , BARBARUAH, Dibrugarh
LATITUDE	27.410654°N
LONGITUDE	94.890330°E
ALTITUDE	108 Mts. From mean Sea Level
CLIMATIC ZONE	COMPOSITE
MEAN TEMPERATURE	24 °C

Climatic Data:

Outdoor Design Conditions : as per location		Source:
Summer		National Building Code of India-2005
Dry Bulb Temp.		
Wet Bulb Temp.		
Monsoon		
Dry Bulb Temp.		
Wet Bulb Temp.		
Winter		
Dry Bulb Temp.		
Wet Bulb Temp.		

Design Inside Conditions:

For all air conditioned areas: 24° ±1° C DB and 50%-60%RH.

For all ventilated Spaces, a maximum temperature rise of 3° C above summer outside design temperature shall be maintained

OTHER DESIGN PARAMETERS:

Fresh Air Requirement for the air conditioned areas:

For all occupied areas/Rooms : 12 CFM per person + 0.06 cfm / sq ft
For all occupied areas/Rooms : 12 CFM per person + 0.06 cfm / sq ft

All areas of the proposed building have been considered as Non-smoking zones.



Occupancy: as per sitting plan

Area Description (for Main Occupied Space)	Nos.
Main Hall of Recreation Center	1000
Other Areas	50

Lighting Load: Lighting load (Watt/Sq.ft.)- as per Ashrae 90.1

Air Conditioned at Main Hall of Recreation Center : Water Cooled Screw Chilling Unit for Summer and Monsoon Cooling + Air Source Water Heaters for Winter Heating + Air Handling Units

Other Areas : Variable Refrigerant Volume/ Flow System

Perimeter Heat Gain– Shall be as per ECBC2009, Part IV

17. DESIGN PARAMETERS:

Recreation Center Main Hall: Estimated diversified load at 80% is 500 TR. Minimum actual chilling capacity of each unit at above parameters shall be 250 TR (2 Working + 1 Standby). Header shall be designed so as to support three chillers operation, if required. The unit capacity shall be as required and increased in steps of 50 TR/ chilling unit to meet the inside conditions. The system shall be with primary pumping system only.

It may be noted that the heat load and unit capacity provided in this report are only for general guidance and the contractor shall provide a detailed working for meeting the design requirements and provide chilling units of higher capacity if required.

Heating in the auditorium shall be from Air Source Hot water Generator of 80 kW nominal capacity. The capacity of each module shall be 80 kW and quantity shall be as required without standby. Minimum quantity to be supplied, installed and commissioned is 4 Nos. (4W+0S)

It may be noted that the quantity provided in this report are only for general guidance and the contractor shall provide a detailed working for meeting the design requirements and provide additional units if required.

Other areas shall be air conditioned by inverter scroll heat pumps of 18.5 TR nominal capacity. The system shall be with primary secondary pumping system. The secondary pumping shall have (2 Working +1 Standby). The capacity of each heat pump module shall be 18.5 TR and quantity shall be as required plus one standby. Minimum quantity to be supplied, installed and commissioned is 6 Nos. (5W+1S).

It may be noted that the quantity provided in this report are only for general guidance and the contractor shall provide a detailed working for meeting the design requirements and provide additional units if required.

18. Water Chilling Machine: AHRI certified Screw Chiller



Performance rating of the Screw water chilling machines shall be based on following design parameters:

Temperature of chilled water Entering chiller	:	54 DegF(12.2 DegC)
Temperature of chilled water Leaving chiller	:	44 DegF(6.7 DegC)
Water Flow Rate 4 USGPM/ TR Condenser	:	2.4 USGPM/ TR Evaporator
Fouling factor for chiller in MKS unit	:	0.0001
Temperature of water entering Condenser	:	90 DegF(32.2 DegC)
Temperature of water leaving Condenser	:	97.5 DegF(36.4 DegC)
Fouling factor for condenser in MKS unit	:	0.0002
Refrigerant	:	R134A only
Full load IKW	:	0.71 max
NPLV	:	0.41 max

The unit shall be with Twin / Mono screw type compressor in semi hermetic construction only, complete with automatic step-less type capacity control from 25 to 100%. The unit shall have suitable capacity Air Cooled VFD starter suitable for compressor motor complete with ammeter, over load protection, under voltage protection, protection against phase reversal & independent single phase preventors etc complete as required. The VFD shall be installed inside the IP 42 rated panel or in case VFD is installed separately the same shall be IP 54 rated. The unit shall be with Active harmonic filters limiting THID to 5%. The unit shall be 2 pass heat exchangers only, having marine water box on condenser and maximum pressure drop 5 mtrs and 8 mtrs respectively in cooler and condenser. The display shall be minimum 8 inches coloured graphical display. The unit shall be shipped factory charged with gas and oil. Test reports at per manufacturer's standard shall be submitted. Witness testing is excluded from scope.

19. Ceiling suspended Cassette

The unit shall be factory built Ceiling Suspended Cassette type fan coil unit having at 3/4 steps fan speed control, 2/3 different swing patterns, draft prevention setting, wireless remote controller having LCD display, Cool/Heat/ Dry Modes, etc. The unit shall have drain pump and control switch. Unit shall have maximum sound power of 40 dBA at 1.5 mtr below unit at minimum flow speed available in unit. The unit shall have inbuilt thermostat and capability to support external 2 way on/off control valve. The unit shall be designed at Indoor Air Temperature 27 Deg C DB/19 Deg C WB, Chilled Water in 7 Deg C and Out 12 Deg C for Cooling Mode & Indoor Air Temperature 20 Deg C DB Hot Water in 50 Deg C and Out 45



Deg C for Heating Mode. For standardization the unit shall have minimum following nominal capacities and air flow rates at specified conditions of; 30000 BTU/ 890 cfm & 43000 BTU/ 1140 cfm.

20. Pumps:

All primary or secondary pumps shall have at least one standby pump. Pumps motors shall be IE3 rated. Chilled water pumps shall be suitably insulated with material same as connected piping.

21. Air Handling Units:

The units shall be with backward curved blower and IE3 motor. Inner sheet shall be 0.5 mm thick and outer sheet shall be 0.5 mm thick for indoor installation and 0.8 mm thick for outdoor installation. Units installed in exposed environment shall be with 48 mm thick casing, thermal break profile and mixing box as required.

Units with recirculating air and capacity upto 5000 cfm shall be with 4 row deep coil (Actual cfm as per site condition as required), Fresh air as required (not more than 15%) shall be suitable added.

Units with recirculating air and capacity above 5000 cfm shall be with 6 row deep coil (Actual cfm as per site condition as required). Fresh air as required (not more than 15%) shall be suitable added.

TFA Units shall be with 8 row deep coil (Actual cfm as per site condition as required) 100% fresh air.

22. Cooling Tower:

Design shall be at 28.3 deg C WB temperature and approach shall be 3.9 deg C max at 4 USGPM/ Chilling TR Flow rate. IP 55 rated lockable Isolator Switch shall be provided with each cooling tower.

Heat rejection capacity shall be 25% over and above chilling unit cooling capacity and one tower shall be provided as standby.

23. Insulated Chilled/ Hot Water Piping (Nitrile Rubber Insulation)

Chilled water circuit shall be duly insulated with closed cell elastomeric nitrile rubber of Class 'O' insulation and applying 0.63 mm aluminium sheet cladding.

For 40 mm and above mm dia. Pipe and pumps -32mm thick insulation

Up to 32 mm dia. 19mm thick insulation

Duct insulation shall be 19 mm thickness duly laminated aluminium foil of mat finish closed cell Nitrile rubber (class "O") insulation on duct after applying two coats of cold setting adhesive (CPRX compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.

Acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 Kg/cum, with 25 mm x 25 mm GI section of 1.25 mm thick at 600 mm centre to centre covered with reinforced Plastic tissue paper and 0.5 mm thick perforated aluminium sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc complete as required and as per specifications.

Acoustic lining on wall and ceiling of AHU rooms shall be with 50 mm thick density 32 kg/cum resin bonded glass fiber insulation friction fixed in 610 mm x 610 mm frame work made of 25 x 50 x 50 x 50 x 25 mm made out of 0.6 mm thick GI sheet U shaped channel



and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc complete as required and as per specifications.

24. Chilled water / condenser water piping.

The Pipes size 150mm & below shall be M.S. "C" class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35 mm thick M.S. Sheet for pipes upto 350 mm dia and 7 mm thick MS Sheet for pipes of 400 mm dia and above.

Ducting shall be as per IS 655 standard and shall be factory fabricated. Minor connections can be fabricated at site.

25. PIPING

- I. Maximum flow velocity: 2.5 m/s
- II. Maximum friction: 5 m/100 m run

26. AIR HANDLING UNIT

- I. Maximum face velocity across cooling coil: 155 m/min
- II. Maximum outlet air velocity: 610 m/min
- III. Maximum velocity across filters:
- IV. Ordinary filters 155 m/min
- V. Micro-vee filters 155 m/min
- VI. HEPA filters 155 m/min
- VII. Minimum spray density for humidification: 10 lpm/sq.m

27. DUCTING FOR AIRCONDITIONING (office Building)

- | | | |
|--|------------------|-------------|
| | Main Duct | Branch Duct |
| I. Maximum flow velocity: | 400 m/min | 250 m/min |
| II. Maximum velocity at supply air grilles/ diffusers: | 150 m/min | |
| III. Maximum friction in duct: | 1cm WG/100 m run | |

28. DUCTING FOR AUDITORIUM, CONFERENCE HALL, OT's:

Value of all above parameters be kept as three fourth of values specified at 2.1.2.4 above.

29. DUCTING FOR ETAC system and VENTILATION

System (normal operation) in Basement:

Value of all above parameters is kept as 1.5 times of values specified at 2.1.2.4 above.

VARIBALE REFRIGERANT VOLUME/ FLOW SYSTEM		
		The system selected is a modular system, number of indoors connected to centrally located outdoor units. The outdoor units for all the system shall be air cooled type. Centralized controller to control / Monitor at least 64 Indoor units shall be provided. Cordless Self Diagnostic Type Remote Controllers shall be provided with each Hi Wall & Cassette units.
	General Description	



		All the VRF air conditioners shall be fully factory assembled, wired, internally piped & tested. The outdoor unit shall be pre-charged first charge of R410A refrigerant. Additional charge shall be added as per refrigerant piping at site. All the units shall be suitable for operation 415 V + 10%, 50 Hz + 3%, 3 Phase supply for outdoor units; 220 V + 10%, 50 Hz + 3%, 1 Phase supply for indoor units. Maximum capacity per refrigerant circuit shall be 60 HP.
	Specification of Outdoor units.	
		Outdoors units of the VRV system shall be compact air cooled type. The outdoor unit should comprise of Inverter controlled Scroll Compressor Each module of outdoor unit should be all inverter scroll type which can work on Part load Suitable to operate at heat load proportional to Indoor requirement. In order to avoid short cycling of hot air, the outdoor unit fan should have an external static pressure of more than 75Pa, top discharge for easy discharge of hot air .The ODU must deliver COP of minimum (5) at 50 % load. The outdoor units must be suitable for up to 165 m refrigerant piping between Outdoor unit & the farthest indoor units. Allowable level difference between outdoor unit & indoor units shall be (90) m in case of outdoor unit on top & (90) min case of outdoor unit at bottom. Allowable level difference between various indoor units connected to one outdoor unit shall be up to (30)m. The outdoor units shall be suitable to operate in an ambient temperature range of 5 Deg C to 48 Deg C in cooling mode; & -20 Deg C to 15 Deg C in Heating mode. The entire operation of outdoor units shall be through independent remotes of indoor units. No separate Start/ Stop function shall be required. Inverter compressor of the unit shall start first & at the minimum frequency, to reduce the Inrush current during starting. Complete refrigerant circuit, oil balancing/ equalizing circuit shall be factory assembled & tested. Units above 12 HP shall be with multiple compressor.
	Specification of Indoor units.	
		The units include pre-filter, fan section and DX coil section. The housing of units shall be light weight powder coated galvanized steel. Units shall have external casing of ABS Plastic for supply and return air.
	Round flow Cassette Type Unit	
		These units should have circular flow & shall be installed between the bottom of finished slab & top of false Ceiling. Unit shall have provision of connecting fresh air without any special chamber & without increasing the total height of the unit 300 mm maximum. The unit must have in built drain pump, suitable for vertical lift of at least more than 800 mm. Unit must be insulated sound absorbing thermal insulation material, Polyurethane foam. The sound pressure level of unit at the highest operating level shall not exceed 44 dB(A). The unit



		must have drain pump kit.
	4 Way Compact Cassette type indoor units.	
		The compact cassette unit should perfectly fit into ceilings and match the standard architectural modules, out the need to cut ceiling tiles. The flaps fold tightly against the ceiling when operation stops so that the ceiling is affected only slightly even if air conditioning is installed. Designed for simple & easy installation and maintenance. It should be slim in design only 290 mm in height even when an electrical box is located inside the unit. The unit must have drain pump kit if. The drain pump must be suitable to lift drain at least up to 750 mm from the bottom of the unit.
	Concealed duct type units	
		These units shall be ceiling suspended suitable supports to take care of operating weight of the unit, out causing any excessive vibration & noise. The cold air supplied by these units will be supplied to the area to be air-conditioned, through duct system specified in the tender. Each indoor unit must have electronic expansion valve operated by microprocessor thermostat based temperature control to deliver cooling/ heating as per the heat load of the room The Sound Pressure level of unit at the highest operating level shall not exceed 48 dB(A), at a vertical distance of 1.5 m below the units duct connected to the unit. The unit must have provision of adding drain pump kit if required & specified. The drain pump must be suitable to lift drain up to 1000 mm from the bottom of the unit.
	Wall Mounted Units.	
		Wall mounted units must be compact & stylish design that does not detract from the décor of the room. Each indoor unit must have electronic expansion valve operated by microprocessor thermostat based temperature control to deliver cooling/ heating as per the heat load of the room. The unit must have provision of adding drain pump kit if required & specified. The drain pump must be suitable to lift drain up to 1000 mm from the bottom of the unit.
		The sound pressure level of unit at the highest operating level shall not exceed 47 dB(A).Refrigerant control in the indoor unit shall be through Electronic Expansion Valve.
	Installation:	
		The units shall be mounted on Nylon glass filled with UV protection, vibration pads, SS bolts and washers). The contractor shall supply the required charge of refrigerant, lubricant and other consumables, for commissioning and testing of the equipment. All the equipment shall be thoroughly tested and checked for leaks. All safety controls shall be suitably set and a record of all setting shall be furnished to the project supervisor. Providing and fixing M.S. structural support for condensing unit vibration isolator pad in-between support and structure and vibration isolation suspender and pads for evaporating units shall be in scope of contractor.



Painting:		
		Shop coats of paint that have become marred during transportation or erection shall be cleaned off mineral spirits, wire brushed and spot primed over the affected areas, then coated enamel paint to match the finish over the adjoining shop-painted surfaces.
Condensate Drain Piping:		
		All pipes to be used for condensate drain shall be PVC pipe conforming to IS:4985 - Class I & all joints should be Gluing or solvent cementing as per manufacturer recommendation.
Refrigerant Piping:		
		All refrigerant pipes and fittings shall be type 'L' hard drawn copper tubes and wrought copper fitting suitable for connection silver solder. The copper thickness of wall shall be 16G/18G/20G/ 22G (0.7 to 1 mm) (as per temper grade as specified in JIS H3300). All joints in copper piping shall be swaged joints using low temperature brazing and/ or silver solder. Before jointing any copper pipe or fittings, its interior shall be thoroughly cleaned by passing a clean cloth via wire or cable through its entire length. The piping shall be continuously kept clean of dirt etc. while construction of the joints. Subsequently, it shall be thoroughly blown out using nitrogen. Refrigerant lines shall be sized to limit pressure drop between evaporator and condensing unit to less than 0.2 kg per Sq.cm. After the refrigerant piping installation has been completed the refrigerant piping system shall be pressure tested using, Freon mixed nitrogen at a pressure of 20 Kg per Sq. cm. (High side) and 10 Kg per Sq. cm (Low side). Pressure shall be maintained on the system for 24 hours. The system shall then be evacuated to a minimum vacuum of 70 cm. of mercury and held for 24 hours, during which time; change in vacuum shall not exceed 12cm of mercury.
		All refrigerant piping shall be installed strictly as per the instructions and recommendations of air conditioning equipment manufacturers.
Power Supply:		
		Power supply near the indoor unit will be provided by the department suitable 6A plug point socket & switch. However, where the power requirement is of central control from ODUs, as per the design of the system, the entire power supply then shall be done by the contractor.

ELECTRICAL WORK RELATED TO AIR CONDITIONING WORKS

This following specifications covers the scope of air conditioning, ventilation and cold room applications, namely, switch boards, power cabling, control wiring, earthing, p.f. capacitors and remote control-cum-indicating panels. Electric motors are not covered here, as these are covered as part of the respective equipment specifications

1.0	GENERAL
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1.1	Unless otherwise specified in the tender specifications, all equipment and materials for electrical works shall be suitable for continuous operations on 415 V/ 240 V + 10%(3 phase/single phase), 50 Hz. AC system. Where the use of high voltage equipment is specified in particular works, all the respective equipment shall be suitable for continuous operation on such specified high voltage
1.2	All electrical works shall be carried out complying the Indian Electricity Rules, 1956 as amended to date.
1.3	All parts of electrical works shall be carried out as per appropriate CPWD General specifications for Electrical works, namely, Part I (Internal) 2013, Part II(External) 1994 work, and Part IV (Sub-station), 2013 all as amended to date.
1.4	All materials and components used shall conform to the relevant IS specifications amended to date.
2.0	SWITCH BOARDS
2.1	The main switch board in the A.C. plant room shall be floor mounted, freestanding cubical type and shall be factory built fabricated by one of the reputed switch board manufacturer. It shall be suitable for termination of the incoming cable(s)/ bus trunking from top/ bottom. The switchboards in air handling unit(AHU) rooms shall be wall mounted, or floor mounted as feasible at site and as approved by the Engineer-in-charge, but they shall be cubical design, unless otherwise specified and open able from front.
2.2	The capacity of switch gear, starters etc. shall be suitable for the requirements of loads fed/controlled. Starting currents shall be duly considered in case of motor loads.
2.3	Switch fuse units shall be used up to and including 63A and fuse switch units shall be used for 100A and above. ACB shall be used for 630A and above ratings.
2.4	All switch fuses/fuse switches dis-connector switches shall be of AC 23 duty as per IS: 4064-1978 as amended up to date. They shall be complete suitable HRC cartridge type fuses.
2.5	Switch boards controlling motors shall house starters for motors, unless otherwise specified. Independent single phasing preventers for each such starter shall be provided. The starter and SPP shall be located adjacent to the controlling switchgear.
2.6	One volt meter selector switch, a set of indicating lamps and fuses for voltmeter and lamps shall be provided at each switchboard. One ammeter CTS, and selector switch shall be provided each motor starter. Instruments shall be flush mounted the panel and have a glass index not higher than 1.5. The instruments and accessories shall be provided whether or not specifically indicated in the tender specifications.
2.7	The fabrication of switchboard shall be taken up only after the drawings for the fabrication of the same are approved by the Engineer-in-charge.
2.8	Switchboards shall be fabricated as per specifications indicated in sub-Para above.
2.9	The layout of bus bars and cable alleys shall be designed for convenient connections and inter-connections the various switchgear. Connections from individual compartments to cable alleys shall be such as not to shut down healthy circuits in the event of maintenance work becoming necessary on a defective circuit.
2.10	Care shall be taken to provide adequate clearances between phase bus bars as well as between phase bus bars, neutral and earth.
2.11	Where terminations are done on the bus bars by drilling holes therein, extra cross section shall be provided for the bus bars. Alternatively, terminations may be made by clamping.



Design, manufacture, inspection and testing of the equipment covered by the specification shall unless otherwise specified conform to the latest edition of the standards and codes including all addenda mentioned below:

Codes & Standards	Specification
IS-659:1964	Safety codes for air conditioning
IS-660:1963/ASHRAE Std 15/ANSI-8-9.1	Safety code for mechanical refrigeration
ASME Sec. VIII/ GB/ BIS	Unfired pressure vessels
IS-4503:1967	Specification for shell and tube heat exchanger
ANSI-8-31.5	Refrigeration piping
IS-3588:1987	Specification for electrical axial flow fans
IS-4894:1987	Specification for centrifugal fans.
IS-4671:1984	Expanded polystyrene for thermal insulation purpose.
IS-1239:Part1:2004	Steel tubes, tubular and others wrought steel fittings. Specification-Part 1: Steel Tubes
IS-1239:Part2:1992	Mild Steel tubes, tubular and others wrought steel fittings. Part 2: Mild Steel tubular and other wrought steel pipe.
IS 3589:2001	Specification for steel pipes for water and sewage (168.3 to 2540 mm outside dia)
ASHRAE 62	Ventilation for acceptable indoor air quality.
IS-655:2006	Metal air ducts.
IS-277:2003	Galvanized steel sheet (plain and corrugated)
AR1-410	Standard for air cooling and air heating coils.
AR1-210	Standard for unitary air conditioning equipment
AMCA-210	Methods of performance test for fans
BS-2831	Methods of test for air filters used in AC and general ventilation
IS-702:1988	Specification for industrial bitumen
IS-325:1996	3 phase induction motors
IS-4029:1967	Guide for testing 3 phase induction motor
IS-210:1993	Specification grey iron casting
IS-2062:2006	Hot rolled low, medium and high tensile structural steel.
AMCA-Bulletin No.	Standard code of testing centrifugal and axial 210 flow fans
Relevant IS code	Code of practice for welding mild steel.
ASHRAE Code	Various filters



BS-4735	Horizontal Burning for XLPE insulation
BS-4370 Part-1	Dimensional Stability for XLPE Insulation
ASTM D 1056	Water Absorption for XLPE Insulation

Acceptable makes
(Internal electrification and street lighting)

LIST OF APPROVED MAKES OF MATERIALS		
1.	PVC CONDUITS (MMS) ISI MARKED	AKG / PRECISION / POLYCAB / MODI
2.	PVC CONDUIT ACCESSORIES (ISI MARKED)	AKG / PRECISION / POLYCAB / MODI
3.	M.S. CONDUIT -ERW (ISI MARKED)	BEC/AKG/ NIC/STEEL CRAFT
4.	M.S. CONDUIT ACCESSORIES (ISI MARKED)	BEC/AKG/ NIC/STEEL CRAFT
5.	PVC INSULATED FRLS COPPER CONDUCTOR CABLES 1.1 KV GRADE (ISI MARKED)	FINOLEX/ POLYCAB/ HAVELLS/RR KABLE
6.	MODULAR PLATE TYPE SCH / SOCKET GI BOXES / FAN REGULATOR//TELEPHONE SOCKET	SCHNEIDER (ZENVELO) / LEGRAND ARTEOR / MK (WRAPAROUND+)/ NORTH WEST (STYLUS)
7.	MCB / ISOLATOR / MCB DB'S / RCCB / ELCB / MODULER TYPE BELL	LEGRAND / SCHNEIDER / ABB / L&T/ SIEMENS
8.	LUMINAIRES / LIGHT FITTINGS	PHILIPS / WIPRO / CROMPTON GREAVES
9.	CEILING FAN / EXHAUST FAN	HAVELLS / CROMPTON GREAVES / USHA / ALMONARD
10.	TELEPHONE CABLES / WIRES (ISI MARKED) / CO-AXIAL TV CABLES	FINOLEX/ POLYCAB / HAVELLS / RR KABLE
11.	CAT 6 CABLE/ CAT 6A/ FIBER OPTIC CABLE & ASSOCIATED ITEMS	SCHNEIDER/SIEMON/SYSTIMAX / LEGRAND
12.	TELEPHONE TAG BLOCK DP BOXES	KRONE (GERMAN) / D LINK / ITL
13.	LUGS / FERRULES / THIMBLES	DOWELLS / JAINSON
14.	DWC HDPE PIPE (ISI MARKED)	REX / DURALINE /TRUPATI



15.	1.1 KV XLPE CABLE (ISI MARKED)	FINOLEX/POLYCAB / HAVELLS / RR CABLE
16.	OCCUPANCY SENSOR	PHILIPS / WIPRO / CROMPTON GREAVES / HONEY WELL
17.	ELECTRICAL PANELS / METER BOARDS	Tricolite/Adlec / C & S / Neptune/ Pristine (Pune)/ SPC Electrotech Pvt Ltd / System Power Control / Electro allied Products
18.	RJ-45 MODULAR SOCKET AND PLATE	LEGRAND / SCHEINDER/ MK WRAPROUND / NORTH WEST
19.	DATA RACK & ACCESSORIES	SCHNEIDER, RITTAL, VALRACK
20.	MCCBS	THE LATEST MODEL / SERIES OF LEGRAND / L&T / SCHNEIDER / ABB / SIEMENS
21.	CURRENT TRANSFORMERS	AUTOMATIC ELECTRIC/ KAPPA/ L&T/ NEPTUNE
22.	PTS	AUTOMATIC ELECTRIC/ KAPPA/ L&T/ NEPTUNE
23.	DIGITAL INDICATING MEASURING INSTRUMENTS /MULTIFUNCTION METERS	L&T (QUASER)/ SCHNEIDER (CONZERV) / AE
24.	SELECTOR SCH	L&T/ KAYCEE/ SIEMENS
25.	INDICATION LAMP & PUSH BUTTON	BCH/ L&T/SIEMENS/ SCHNEIDER
26.	DIGITAL ENERGY METER	L & T / CONZERV/ SECURE
27.	APFC RELAYS	L&T / SIEMENS / SCHNEIDER / NEPTUNE (DUCATI)
28.	BUS TRUNKING, RISING MAIN & TAP-OFF BOX	LEGRAND/ L&T/ SCHNEIDER/ C & S / ABB
29.	LT CABLE (ISI MARKED) 1.1 KV	POLYCAB / HAVELLS / NATIONAL / GRANDLEY/ RR CABLE
30.	CABLE TRAYS & ACCESSORIES	VENUS/ SLOTCO/ PILCO/ REECO/OBO
31.	CAPACITOR(ISI MARKED)	EPCOS/ NEPTUNE/ SIEMENS/ L&T
32.	CABLE GLAND/ LUGS/ THIMBLES	COMMET/ DOWELLS/ RAYCHEM/ GRIPWELL
33.	OCTAGONAL STEEL POLE	BAJAJ / TWINKLE / VOLMART /PHILIPS
34.	LED STREET LIGHT FITTINGS	PHILIPS / CROMPTON GREAVES / WIPRO

Note: - In case make of any equipment or material is not specified in the BCPL, the matter shall be referred to the BCPL approving authority and obtain the approval. Thereafter the agency can proceed with the supply of material.



Air conditioning
LIST OF APPROVED MAKES OF MATERIAL FOR HVAC / VRF / VRV / SPLIT A.C.

S. No.	Material / Item	Make
1.	Chilled Water Machine	Carrier/ Daikin / Mitsubishi Mcquay/Voltas
2.	Pumps i/c secondary and primary pumps.	Armstrong / Grundfos /ITT
3.	Cooling Tower	Bell / Paharpur /Mihir
4.	Air Handling Unit (AHU)	Zeco Aircon/ Edgetech /Carrier/ Blue Star/ System Air / Voltas / Daikin
5.	Factory fitted mixing box for AHU	Zeco Aircon/ Edgetech /Carrier/ Blue Star/ System Air / Voltas / Daikin
6.	Fan Coil Unit (FCU)	Zeco Aircon/ Edgetech /Carrier/ Blue Star/ System Air / Voltas
7.	Treated Fresh Air Unit (TFA)	Zeco Aircon/ Edgetech /Carrier/ Blue Star/ System Air / Voltas
8.	Cooling coil	Zeco Aircon/ Edgetech /Carrier/ Blue Star/ System Air / Voltas
9.	Active Induction Beam	New Climate / Trox / Halton / Swegon
10.	Centrifugal Fan for AHU	Kruger / Wolter / Nicotra / Greenheck
11.	Air filter (Pre/fine/Hepa etc.)	Mechmaark / Pyramid / Camfil/Thermodyne
12.	Heat Recovery Wheel (HRW)	DRI / Flaktwoods / Osberg/Bry-Air
13.	Hydronic Cassette units	Carrier Aircon / York / Midea
14.	Variable Frequency Drive (VFD)	Danfoss / Schneider / ABB / Siemens
15.	Ventilation Fan (Centrifugal / Axial)	Kruger / Wolter / Nicotra /Greenheck
16.	Propeller Fan	Marathon / Khaitan /GEC/Alsthom
17.	Inline Fan	Pineair / Ostberg / Kruger/Greenheck
18.	MS Pipe / G.I. Pipe	TATA / SAIL / Jindal (Hissar)
19.	PUF Pipe Support	Malanpur / Lloyd / Best Puf
20.	Pressurized Expansion Tank& Air Separator	Grundfos / ITT / Anergy
21.	Butterfly Valve	Advance / Audco / AIP / Zoloto
22.	Balancing Valve	Advance / Audco / AIP
23.	Check Valve	Advance / Audco / AIP
24.	Y – Strainer	Sant / AIP / Rapidcool /Emerald
25.	Pot Strainer	Sant / AIP / Rapidcool/Emerald
26.	Ball valve h & hout strainer	Audco / Sant/ AIP / Rapidcool/Castle
27.	Ball Valve, Butterfly Valve, Non-return valve, Check Valve	AIP /Audco / Sant / Advance/Castle
28.	Motorized Butterfly valve	Honeywell / Advance / Danfoss/ AIP / Zoloto



S. No.	Material / Item	Make
29.	Thermometer / Pressure Gauge	Fiebig / H-Guru/ Emerald / Anergy
30.	Test Point	Anergy / Emrald / Rapidcool
31.	Water flow sch	Siemens / Anergy / Honeywell / Rapid Cool
32.	Flexible pipe connection	Resitoflex / Kanwal /Dunlop /Easyflex
33.	PID Control Valve h Actuator, motor and Thermostat	Danfoss / Siemens / Oventrop
34.	Auto air vent h stop valve	Rapid Cool / Anergy / AIP/Emerald/Fiebig
35.	Factory Fabricated Rectangular Duct	Dustech / ZecoAircon/Edgetech/Rolastar/Eco duct
36.	G.I. Sheet	Jindal / Tata / Nippon / SAIL
37.	Factory Fabricated Spiral Duct	G P Spiro / Dustech / Zeco Aircon /Edgetech/ Rolastar/Eco duct
38.	Vibration isolator / Rubbed pad/Duct support Arrangement	Dunlop / Resistoflex /Emerald
39.	Demand Ventilation Equipment	Conaire / Greenheck
40.	CO2 Sensor	Danfoss / Honeywell / Siemens
41.	Modulating Motor/Valve	Danfoss / Honeywell / Siemens / Oventrop
42.	Volume Control Damper, Fresh/ Exhaust air louver	Conaire / Pineair /Caryaire/Dynacraft/System Air
43.	Grille / Diffuser / Jet Nozzle	Conaire / Pineair /Caryaire/Dynacraft/System Air
44.	Fire Damper	Conaire / Pineair /Caryaire/Dynacraft/System Air/Ruskin/Trox
45.	Actuator for fire damper	Siemens/ Honeywell / Danfoss
46.	Nitrile Rubber Insulation	Armacell / Eurobatex / Vidoflex
47.	Acoustic Insulation for Duct	UP Twiga / Owns Conning
48.	EPS	Beardcell / Styrene Packaging / P.R. Packaging
49.	Fastner	Hilti / Wurth / Fisher
50.	Wire rope & zip clip	OBO / Equivelent
51.	Electrical Panel	Tricolite/Adlec / C & S / Neptune/ Pristine (Pune)/ SPC Electrotech Pvt Ltd / System Power Control / Electro allied Products
52.	Motor for AHU Fan	Siemens / ABB / Crompton
53.	Motor for Ventilation Fan	Siemens / ABB / Crompton
54.	Starter	Siemens / Schneider
55.	Single Phase Preventor	Minilec / EAP, Bangalore
56.	Current Transformer (Cast Resin)	AE / L&T / Kappa
57.	Switch / Fuse Unit / HRC Fuse	L&T / Siemens / ABB
58.	MCCB	The latest model of Legrand / L&T / Schneider / ABB / Siemens
59.	MCB	The latest model of Legrand / L&T /



S. No.	Material / Item	Make
		Schneider / ABB / Siemens
60.	Ammeter / Voltmeter (Digital Type)	AE / L&T / Crompton Greaves/Siemens/Conserve
61.	LED Indicating Lamp / Push Button	Siemens / GE Power / ABB / L&T / Schneider Electric
62.	Selector Switch	AE / L&T / Kaycee
63.	Relay / Timer / Contactor/Starter/ Push Button	Siemens / L&T / Schneider Electric / ABB / BIL
64.	Paint	Nerolac / Asian / Berger
65.	Power Cable	FINOLEX/POLYCAB / HAVELLS / RR CABLE
66.	Termination Kit	Raychem / Densons / Xicon / ABB
67.	Perforated Cable Tray	B.E.C. / Apex / Indiana / Steelway / OBO
68.	Cable Gland	Commet / Gripwel / Dowell / Raychem
69.	Solder less Lug	Dowell / Schneider Electric / Jainsons, Mumbai
70.	Hot water Generator	KEPL/Rapidcool/Emerald
71.	Kitchen Scrubber	Edgetech/Rydair/Trion/Espire/Zeco Aircon
72.	Air Washer (Pad Type)	Ambcool/Edgetech/Roots Cooling/ System Air
73.	UVGI System	Ruks/Trimed/Unicon
74.	Aluminium Sheet	Hindalco/Indalco/Balco/Jindal
75.	Pan Humidifier	KEPL/Rapidcool/Emerald/Danfoss
76.	Humidistat/Airstat	Honey well/Danfoss/Jhonson/Siemens
77.	ACB(h Microprocessor release)	Schneider-MVS/Siemens-3WL/L&T-U-power Omega /ABB-Emax
78.	VRV/VRF System,Indoor Unit	Daikin/Toshiba/Mitsubishi Electric/Blue star
79.	Copper Tubes/Pipe	Met-Tube/Hindustan/Rajco/Total line/Mandav tubes/Jindal Refrigeration
80.	Split A.C (5 Star rated)	Daikin/ Blue star /Toshiba/Mitsubishi/ Carrier

Note: - In case make of any equipment or material is not specified in the BCPL, the matter shall be referred to the BCPL approving authority and obtain the approval. Thereafter the agency can proceed with the supply of material.



भाग – VIII

SECTION-VIII

HEALTH, SAFETY ENVIRONMENT [HSE] SPECIFICATIONS



SECTION - VIII

HEALTH, SAFETY AND ENVIRONMENT [HSE] SPECIFICATIONS

1. SCOPE

These specifications establish the 'Health, Safety and Environment [HSE] Management' requirement to be complied with by the Contractors during executing their Job. Requirements stipulated in these specifications shall supplement the requirements of 'HSE Management' given in relevant act(s) / legislation(s).

2. REQUIREMENTS OF 'HEALTH, SAFETY AND ENVIRONMENT [HSE] MANAGEMENT SYSTEM' TO BE COMPLIED BY BIDDERS

- 2.1. Preferably, the Contract should have a documented 'HSE Policy' to cover commitment of their organization to ensure health, safety and environment aspects in their line of operations.
- 2.2. The Contractor shall ensure that the BCPL's 'Health, Safety and Environment [HSE]' requirements are clearly understood and faithfully implemented at all level, at sites.
- 2.3. Contractor shall promote & develop consciousness for health, safety & environment among all personnel working for the Contractor. Regular work-site meetings shall be arranged on 'HSE' activities to cover hazards involved in various operations during executing their jobs, location of First Aid Box, trained personnel to give First Aid, Assembly Points, standby Ambulance or vehicle and fire protection measures such as fire hydrant, water and fire extinguishers, etc.
- 2.4. Non-conformance of 'HSE' by Contractor [including his sub-Contractors] as brought out during review/audit by BCPL / external agency authorized by BCPL, shall be complied by Contractor and its report to be submitted to BCPL.
- 2.5. Contractor shall adhere consistently to all provisions of 'HSE' requirements. In case of non-compliance of continuous failure in implementation of any of the 'HSE' provisions, BCPL may impose stoppage of work and a suitable penalty for non-compliance. The decision of imposing work-stoppage, its extent & monetary penalty shall rest with BCPL.
- 2.6. All fatal accidents and other personnel accidents shall be investigated for root cause by BCPL and Contractor shall extend all necessary help and cooperation in this regard. Recommend corrective and preventive actions of findings will be communicated to Contractor for taking suitable actions should be taken by the Contractors to avoid recurrence of such incidences.
- 2.7. Contractor shall ensure that all their staffs and workers, including their sub-Contractor(s), shall wear 'Personal Protective Equipments [PPEs]' such as safety helmets, safety shoes, safety belts, protective goggles, gloves, etc., as per job requirements. All these gadgets shall conform to relevant IS specifications or equivalent.
- 2.8. Contractor shall assign competent & qualified personnel for carrying out various tasks/jobs as per requirement.
- 2.9. All equipment should be tested and certified for its capacity before use.



- 2.10. Contractor shall ensure storage and utilization methodology of materials that are not detrimental to the environment. Where required, Contractor shall ensure that only the environment-friendly materials are used.
- 2.11. All persons deployed at site shall be knowledgeable of and comply with the environmental laws, rules and regulations relating to the hazardous material substances and waste. Contractor shall not dump release or otherwise discharge or dispose off any such materials without the express authorization of BCPL.
- 2.12. Contractor should obtain all work permits before start of activities [as applicable] like hot work, confined space, work at heights, storage of chemicals/explosive materials and its use & implement all precautions mentioned therein.
- 2.13. Contractor should display caution boards, provide posters, banners at site office and work locations for safe working to promote safety consciousness, etc.
- 2.14. Contractor should carryout audits/inspections/supervisions at the sub-Contractor's works and should submit the reports for review by BCPL

3. RELEVANT CODES FOR 'PERSONAL PROTECTION EQUIPMENTS'

IS: 2925 – 1984	Industrial Safety Helmets
IS: 47701 – 1968	Rubber Gloves for Electrical Purpose
IS: 6994 - 1973 [Part-I]	Industrial Safety Gloves [Leather & Cotton Gloves]
IS: 1989 - 1986 [Part-II]	Leather Safety Boots & Shoes
IS: 5557 - 1969	Industrial & Safety Rubber Knee Boots
IS: 6519 – 1971	Code of Practice for Selections, Care & Repair of Safety Footwear
IS: 11226 – 1985	Leather Safety Footwear Having Direct Molding Sole
IS: 5983 - 1978	Eye Protectors
IS: 9167 - 1979	Ear Protectors
IS: 3521 - 1983	Industrial Safety Belts & Harnesses

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भाग – IX
SECTION – IX

दर अनुसूची (एसओआर)
SCHEDULE OF RATES (SOR)
(To be uploaded in Folder –I (Techno-commercial part))

[Do not quote here. Only confirm that you have uploaded the Priced SOR as per this format in Folder II (Finance /Price folder)]



PRICE SCHEDULE / SCHEDULE OF RATES (SOR) [PART - I - UN-PRICED BID]
SECTION-VII

E-TENDER NO:-BCPL/C&P/LE18W0..ND/90000924

NAME OF WORK: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH

SN	Activity Line No.	Description of the item	UOM	Qty	SAC	Unit Rate (in Rs.)		Amount (in Rs.)	
					Code	In Figure	In Words	In Figure	In Words
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	10	Type-A quarters [in Blocks of 12 units] Construction of Type – A residences [G+2 level buildings with 12 units in one block and 4 units per floor]. It includes execution of civil work and services related to the building as per Scope of work and detailed Technical specifications of the contract.	No.	3.00					
2	20	Type-C quarters [in Blocks of 12 units] Construction of Type – C residences [G+2 level buildings with 12 units in one block and 4 units per floor]. It includes execution of civil work and services related to the building as per Scope of work and detailed Technical specifications of the contract.	No.	3.00					
3	30	Recreation center Construction of Recreation center [Single floor of approximately 9m ceiling height]. It includes execution of civil work and services related to the building as per Scope of work and detailed Technical specifications of the contract.	No.	1.00					



4	40	Consultancy charges. Engineering and Design Consultancy services along with supervision charges for construction of 3 Nos. Type-A quarters, 3 Nos. Type-C quarters and 1 no. Recreation Center including peripheral landscaping, approach pathways and other related services as per Scope of work and technical specifications of the contract.	LMP	1.00					
A		TOTAL SERVICE CHARGES exclusive of GST (Rs.)							
B		Applicable GST Rate %							
C		Amount Of GST (Rs.)							
D		Grand Total of Contract Value of all SOR items in Figure (Including GST) : (Rs.)							
		Grand Total in words (Including GST) :							

*Bidders to mention/indicate in words "Quoted/Not Quoted" as applicable (using ball point pen with blue ink)



PART - II - PRICED BID
ATTACHED AS A SEPARATE SHEET

(PLEASE GO TO OUR E-TENDER PORTAL,
SOR TO BE QUOTED UNDER E-MODE ONLY.)



CUT-OUT SLIPS

ENVELOPE – (I): "BID SECURITY / EMD & TENDER FEE /MSE CERTIFICATE (as applicable), POWER OF ATTORNEY AND ANY OTHER TENDER DOCUMENTS" – As per ITB 11.1.1, 5 & 16

DO NOT OPEN

SUB: DESIGN, ENGINEERING, SUPERVISION AND CONSTRUCTION OF RESIDENTIAL QUARTERS AND RECREATION CENTRE AT BCPL TOWNSHIP, BARBARUAH

E-TENDER NO.: BCPL/C&P/LE18W0184ND/90000924

BID SUBMISSION DUE DATE &
TIME ON E-TENDER PORTAL : **17.01.2019 at 1430Hrs**

TO

CONTRACTS & PROCUREMENT DEPT.
M/s Brahmputra Cracker and Polymer
Limited (A Government of India Enterprise),
C&P Department, Administrative Building,
PO: Lepetkata, Dist.: DIBRUGARH, Assam,
Pin Code:786006,
Phone no. 0373 2914636.

FROM:

TO BE PASTED ON THE OUTER ENVELOPE CONTAINING

**BID SECURITY / EMD & TENDER FEE /MSE CERTIFICATE (as applicable),
POWER OF ATTORNEY AND ANY OTHER TENDER DOCUMENTS.**