

## ODISHA BRIDGE & CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No. 9789

File: SMT-1762

Date. 10/12/2021

### CORRIGENDUM No. 1

#### (Extension of Dates and Modification of Clauses)

Name of the Work

: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis.

Bid Identification No.

: 33/Tender/OBCC/2021-22

E-Procurement Tender ID

: 2021\_OBCC\_72698\_1

The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly.

Sl No	Reference	As per IFB/NIT	As modified/ added
1	NIT Sl No.2	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 16.11.2021 to 5.00 P.M. of Dt. 13.12.2021 for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 16.11.2021 to 5.00 P.M. of Dt. 29.12.2021 for online bidding
2	NIT Sl No.4	The Bid Shall be received only on “online” on or before 5.00 P.M. of Dt. 13.12.2021.	The Bid Shall be received only on “online” on or before 5.00 P.M. of Dt. 29.12.2021.
3	NIT Sl No.9	The technical Bids received online shall be opened on dt. 14.12.2021 at 11:30 A.M.	The technical Bids received online shall be opened on dt. 30.12.2021 at 11:30 A.M.
4	NIT Sl No. 11	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before 11.00 A.M on 14.12.2021 to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before 11.00 A.M on 30.12.2021 to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 30.12.2021 in the office of the Employer.</i>
5	Bid Data Sheet Clause No: 20.1	Time and date of online submission is on or before as per the date mentioned in NIT.  For Cover-III & Cover-IV, time and date of offline submission is on or before as per the date mentioned in NIT in the office of the Employer.	Time and date of online submission is on or before 5.00 P.M. of Dt. 29.12.2021  For Cover-III & Cover-IV, time and date of offline submission is on or before 11.00 A.M on 30.12.2021 in the office of the Employer.
6.	Section 1: BID DATA SHEET	Experience of successful completion of works / substantial completion of similar works (90% of the value of the	Experience of successful completion of works / substantial completion of “Similar Works”

Sl No	Reference	As per IFB/NIT	As modified/ added
	Clause 4.2 (c) – Qualification of the Bidder	<p>contract to be considered as substantial completion) as referred in Bid Data Sheet Cl. 4.4.A(b).</p> <p>Similar Works shall mean a multi storeyed building complex of height at least 15 metres (preferably Academic Institution / Hostel Building/ Residential Complex/ Commercial buildings / Office Campus) of minimum ₹ 180.00 Cr.</p> <p>The bidder must furnish the list of such works in the proforma stated in Cl. 1.3.1. in Section 2 (Qualification Information).</p>	<p>(90% of the value of the contract to be considered as substantial completion) as referred in Bid Data Sheet Cl. 4.4.A(b).</p> <p>Similar Works shall mean “<b>Any multi-storeyed building complex of building height of at least 15 metres executed during the last 5 years in Design &amp; Build mode</b>”</p> <p>The bidder must furnish the list of such works in the proforma stated in Cl. 1.3.1. in Section 2 (Qualification Information).</p>
7.	<p>Section 1: BID DATA SHEET</p> <p>Clause 4.4.A(b) – Experience in similar project works</p>	<p>Experience of successful completion of Work:</p> <p><b>(a)</b> Satisfying any one of the following criteria for Similar Works<sup>5</sup> during last 5 years ending 31.03.2021. Cost of completed works of previous financial years shall be given weightage of 10% (ten percent) per year based on rupee value to bring them to the price level up to the year of bid invitation.<sup>6</sup></p> <p><b>One “Similar Works” of ₹ 360.00 Crores; OR</b></p> <p><b>Two “Similar Works” of ₹ 270.00 Crores; OR</b></p> <p><b>Three “Similar Works” of ₹ 180.00 Crores</b></p> <p><i>Please note that: -</i></p> <p><i>(i) Experience of holding companies, associate companies, subsidiaries, and sister concerns shall not be considered for evaluation.</i></p> <p><i>(ii) All work orders / completion certificates submitted should be in the name of the Applicant (or Sub-contractor) as allowed as per the provisions of this IFB</i></p> <p><i>(iii) For private sector projects, completion certificate with TDS shall be submitted.</i></p>	<p>Experience of successful completion of Work:</p> <p><b>(a)</b> Satisfying any of the following criteria for “Similar Works” during last 5 years ending due date of Bid submission. Cost of completed works of previous financial years shall be given weightage of 10% (ten percent) per year based on rupee value to bring them to the price level up to the year of bid invitation</p> <p><b>One “Similar Works” of ₹ 360.00 Crores, OR</b></p> <p><b>Two “Similar Works” of ₹ 270.00 Crores each, OR</b></p> <p><b>Three “Similar Works” of ₹ 180.00 Crores each</b></p> <p><i>Please note that: -</i></p> <p><i>(i) Experience of holding companies, associate companies, subsidiaries, and sister concerns shall not be considered for evaluation.</i></p> <p><i>(ii) All work orders / completion certificates submitted should be in the name of the Applicant (or Sub-contractor) as allowed as per the provisions of this IFB</i></p> <p><i>(iii) For private sector projects, completion certificate with TDS shall be submitted.</i></p>
8.	<p>Section 1: BID DATA SHEET</p> <p>Clause 4.4. A (a) – Minimum</p>	<p>i. Shall have an annual minimum turnover of ₹ 400.00 Crores in Civil Construction works certified by chartered accountant during any year in the last five financial years ending 31.03.2021. {Please note that stand-</p>	<p>i. Shall have an annual minimum turnover of ₹ 360.00 Crores in Civil Construction works certified by chartered accountant during any year in the last five financial years ending 31.03.2021. {Please note that stand-</p>

Sl No	Reference	As per IFB/NIT	As modified/ added
	Annual Financial Construction Turnover	<p><i>alone financial figures of the Applicant only shall be considered for evaluation,</i></p> <p>Financial turnover of previous financial years shall be given weightage of 10% (ten percent) per year based on rupee value to bring them to the price level up to the year of bid invitation.<sup>4</sup></p> <p>ii. The Firm should demonstrate making profit during the last three financial years, ending on 31.03.2021.</p> <p>iii. Should have valid PAN and GSTIN</p>	<p><i>alone financial figures of the Applicant only shall be considered for evaluation,</i></p> <p>Financial turnover of previous financial years shall be given weightage of 10% (ten percent) per year based on rupee value to bring them to the price level up to the year of bid invitation.<sup>4</sup></p> <p>ii. The Firm should demonstrate making profit during the last three financial years, ending on 31.03.2021.</p> <p>iii. Should have valid PAN and GSTIN</p>
9.	Section 3: CONDITIONS OF CONTRACT Clause 2.3 – Priority of Documents	<p>The documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> <li>(a) Agreement</li> <li>(b) Letter of Acceptance, notice to proceed with the works</li> <li>(c) Contractor's Bid</li> <li>(d) Contract Data</li> <li>(e) Conditions of Contract including Special Conditions of Contract</li> <li>(f) Specifications</li> <li>(g) Drawings</li> <li>(h) Bill of quantities (optional) and</li> <li>(i) Any other document listed in the Contract Data as forming part of the Contract.</li> </ul>	<p>2.3 The documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> <li>(a) Agreement</li> <li>(b) Letter of Acceptance, notice to proceed with the works</li> <li>(c) Contractor's Bid</li> <li>(d) Contract Data</li> <li>(e) Conditions of Contract including Special Conditions of Contract</li> <li>(f) Specifications</li> <li>(g) Drawings</li> <li>(h) Bill of quantities (optional) and</li> <li>(i) Any other document listed in the Contract Data as forming part of the Contract.</li> </ul> <p>In case of ambiguities or discrepancies within this Agreement, the following shall apply:</p> <ul style="list-style-type: none"> <li>a) between two or more Clauses of this Agreement, the provisions of a specific Clause relevant to the issue under consideration shall prevail over those in other Clauses;</li> <li>b) between the Clauses of this Agreement and the Schedules, the Clauses of agreement shall prevail and between Schedules and Annexures, the Schedules shall prevail;</li> <li>c) between any two Schedules/ Annexures/ Appendices, the Schedules/ Annexures/ Appendices relevant to the issue shall prevail;</li> <li>d) between the written description on the Drawings and the Specifications and Standards, the specifications shall prevail;</li> <li>e) between the dimension scaled from the Drawing and its specific written dimension, the later shall prevail; and</li> <li>f) between any value written in numerals and that in words, the later shall prevail.</li> </ul>

<b>Sl No</b>	<b>Reference</b>	<b>As per IFB/NIT</b>	<b>As modified/ added</b>
10.	Section 2: Forms of BID Affidavit  Page- 52		Modified as per Annexure- 1

**Sl No.11** : The Corrigendum shall be the part of the RFP documents

**Sl No.12** : All the items specified in this corrigendum supersede relevant items to that effect as provided in the original RFP documents. All other specifications, terms & conditions of the original RFP document shall remain unchanged.

**Sl No.13** : All other terms and conditions remain unchanged.

Bidders are advised to go through the corrigendum and addendum carefully along with the RFP while preparing the response/ proposal.

Yours sincerely

EIC-cum-Managing Director



A handwritten signature in black ink, appearing to read "EIC-cum-Managing Director". To the left of the signature, there is a date written in green ink: "10/12/21".

## **AFFIDAVIT**

*[To be submitted by the bidder in a non-judicial stamp paper duly signed by the Notary Public]*

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s.....nor through an Associate and/ or Joint Venture have abandoned any work contract awarded to us in India, for such works which have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the Department/ Project implementing agency.
5. The undersigned has read and confirms that the specification, Design brief, drawings (PDF & Auto CAD) including all parts of RFP Documents and Corrigendum are Minimum Indicative and Non-Negotiable during the life cycle of the Project from Bidding stage to Execution stage unless and otherwise directed by the client for any modification/ alterations.
6. The non-disclosure of litigation history till the Bid submission date by the Bidder will lead to disqualification of the Bid at any stage of tendering process.

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Authorized Signature:

Name & Title of Signatory:

Name of Bidder : \_\_\_\_\_

Stamp:



No: 9892

File: SMT- 1762

Date: 15-12-2021

**CORRIGENDUM NO. 2****(Modification of Clauses, Sections & Reply to Pre-bid Queries)**

Name of the Work : Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis.

Bid Identification No : 33/Tender/OBCC/2021-22

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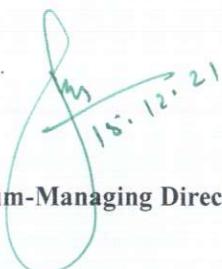
The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly

Sl No	Reference	As per IFB/NIT	As modified/ added
1.	Section -5 Technical Specification page-126	The profile depth should be minimum of 58mm with a nominal wall thickness, internally and externally of 2.8mm. The profile shall have a minimum of two sealed chambers for transoms and mullions and 3 sealed chambers for frames and sashes	The profile depth should be minimum of 58mm with a nominal wall thickness, internally and externally of <b>2.0 mm</b> . The profile shall have a minimum of two sealed chambers for transoms and mullions and 3 sealed chambers for frames and sashes
2.	Section -5 Technical Specifications- Internal Electrical System Page-371	The electrical equipment of 11KV /433V Substation like Incoming HT cable, HT Panel, Dry Type Transformers, Bus Duct, Main LT Panels and Capacitor Panels are not in the scope of work	The electrical equipment of 11KV /433V Substation like Incoming HT cable, HT Panel, Dry Type Transformers, Bus Duct, Main LT Panels and Capacitor Panels are <b>in the scope of work</b>
3.	Section-3 Conditions of Contract  D. Cost Control item No.42 Total Bid price page No.74	<b>TAX:</b> The rates quoted by the Contractor shall be deemed to be inclusive the GST, Royalty, Income Tax, Labour CESS and all other statutory taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.	<b>TAX:</b> The rates quoted by the Contractor shall be deemed to be inclusive of Royalty, Income Tax, Labour CESS and all other statutory taxes that the Contractor will have to pay for the performance of this Contract but <b>exclusive of GST</b> . The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

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4.	Section-5 Technical Specification Page No- 233	Reinforcement shall conform to IS: 1786 (latest version) grade Fe-500 for mechanical properties and shall be Corrosion resistant steel and it should be OPWD approved. it shall be either from Vizag (RINL) Steel or HCR-M from SAIL only	Reinforcement shall conform to IS: 1786 (latest version) grade <b>Fe-500D</b> for mechanical properties and shall be Corrosion resistant steel and it should be OPWD approved.																																								
5.	Section-5 Technical Specification  Concrete cover Page No- 220	<p>a. Shall be in accordance with IS: 456-2000 and as per the instructions in structural drawings.</p> <ul style="list-style-type: none"> <li>* Footings, retaining walls and Similar members in contact with earth but not cast against earth - 50 mm</li> <li>* Slabs - 20 mm</li> <li>* Walls, ribs - 20 mm</li> </ul> <p><b>Beams:</b> For main bars -Min.25 mm or dia. of the bar For stirrups - 15 mm Columns - 40 mm Columns less than 20 cms -25 mm</p> <p><b>Water tanks:</b> In contact with water -40 mm In contact with air -20 mm Walls in contact with water / Earth - 40mm</p>	Shall be in accordance with IS: 456-2000 with severe exposure condition.																																								
6.	Section-5 Technical Specification  Internal Plumbing Page No- 286	<table border="1" data-bbox="481 1213 988 1872"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Capacity of the Geyser</th> <th>No. of Geyser</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Flat- I/II/IV/V/VI</td> <td>15 LTS</td> <td>1 No in each toilet</td> </tr> <tr> <td>2</td> <td>Flat- I/II/IV/V/VI</td> <td>5 LTS</td> <td>1 No in each Kitchen</td> </tr> <tr> <td>3</td> <td>Hostel room with Single accommodation</td> <td>25 LTS</td> <td>4 Nos. in each common toilets</td> </tr> <tr> <td>4</td> <td>Hostel block Type B</td> <td>15 LTS</td> <td>1 No in each toilet</td> </tr> <tr> <td>5</td> <td>Mess</td> <td>25 LTS</td> <td>4 Nos. in each mess</td> </tr> <tr> <td colspan="4">Note:- Mess Geyser quantity shall be increased as per the kitchen vendor.</td></tr> </tbody> </table>	S. No.	Description	Capacity of the Geyser	No. of Geyser	1	Flat- I/II/IV/V/VI	15 LTS	1 No in each toilet	2	Flat- I/II/IV/V/VI	5 LTS	1 No in each Kitchen	3	Hostel room with Single accommodation	25 LTS	4 Nos. in each common toilets	4	Hostel block Type B	15 LTS	1 No in each toilet	5	Mess	25 LTS	4 Nos. in each mess	Note:- Mess Geyser quantity shall be increased as per the kitchen vendor.				<table border="1" data-bbox="988 1213 1485 1491"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Capacity of the Geyser</th> <th>No. of Geyser</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Flat- VI/ VII</td> <td>15 LTS</td> <td>1 No in each toilet</td> </tr> <tr> <td>2</td> <td>Flat- VI/ VII</td> <td>5 LTS</td> <td>1 No in each Kitchen</td> </tr> </tbody> </table>	S. No.	Description	Capacity of the Geyser	No. of Geyser	1	Flat- VI/ VII	15 LTS	1 No in each toilet	2	Flat- VI/ VII	5 LTS	1 No in each Kitchen
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7.	Section-5 Technical Specification  Clause 5A417.1.11 Page No- 327	Provision of twelve (12) months maintenance and breakdown services.	Provision of Sixty (60) months maintenance and breakdown services.																																							
8.	Section-5 Technical Specification  Clause 5A415.3 Page No- 311	The pipes and fittings shall conform to BIS: 3989 as called for. Fittings shall be of required degree with or without access door. All access doors shall be made up with 3mm thick insertion rubber gasket of white lead and tightly bolted to make the fittings air and watertight. The fittings shall be of the same manufacture as the pipes used for soil and waste.	The pipes shall UPVC SWR.  The fittings shall be of the same manufacture as the pipes used for soil and waste.																																							
9.	Section-5 Technical Specification  BUILDING MEP SERVICES OUTLINE SPECIFICATIONS Page No- 249	Air conditioning for Residential flats, Hostel and other Amenity Buildings	Air conditioning for Residential flats																																							
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- SI No.11** : Please refer the responses to the pre-bid queries attached as Annexure-I
- SI No.12** : Please refer to the revised Section- 8 (Terms of reference, design brief & Scope of work) attached as Annexure-II.
- SI No.13** : Please refer to the revised Section- 9 (Payment Schedule) attached as Annexure-III.
- SI No.14** : The Corrigendum shall be the part of the RFP documents
- SI No.15** : All the items specified in this corrigendum supersede relevant items to that effect as provided in the original RFP documents. All other specifications, terms & conditions of the original RFP document shall remain unchanged.
- SI No.16** : The queries raised and given by the bidders, but the clarifications are not made in this corrigendum shall be considered to remain unchanged as per the terms & conditions mentioned in the original RFP documents.
- SI No.17** : All other terms and conditions remain unchanged.



15.12.21

EIC-cum-Managing Director



## ଓଡ଼ିଶାସେତ୍ରଓନ୍ମାଣନିଗମଳୀ

(ଓଡ଼ିଶାସରକାରଙ୍କପୂର୍ବ ବିଭାଗ ଅଧିନର ଏକଉଦ୍ୟୋଗ)

### ODISHA BRIDGE & CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No: 10126  
File: SMT- 1762

Date: 23-12-2021

### CORRIGENDUM NO. 3

#### (Modification of Clauses, Sections and reply to pre-bid queries)

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Sl. No.	Reference	As per Corrigendum No.1	As Modified
1	Corrigendum 1 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 12.11.2021 to 5.00 P.M. of Dt. 29.12.2021 for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 12.11.2021 to 5.00 P.M. of Dt. 11.01.2022 for online bidding
2	Corrigendum 1 Sl. No. 2	The Bid Shall be received only on “online” on or before 5.00 P.M. of Dt. 29.12.2021.	The Bid Shall be received only on “online” on or before 5.00 P.M. of Dt. 11.01.2022.
3	Corrigendum 1 Sl. No. 3	The technical Bids received online shall be opened on dt. 30.12.2021 at 11:30 A.M.	The technical Bids received online shall be opened on dt. 12.01.2022 at 11:30 A.M.
4	Corrigendum 1 Sl. No. 4	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before 11.00 A.M on 30.12.2021 to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 30.12.2021 in the office of the Employer.</i>	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before 11.00 A.M on 12.01.2022 to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 12.01.2022 in the office of the Employer.</i>
5	Corrigendum 1 Sl. No. 5	Time and date of online submission is on or before 5.00 P.M. of Dt. 29.12.2021  For Cover-III & Cover-IV, time and date of offline submission is on or before 11.00 A.M on 30.12.2021 in the office of the Employer.	Time and date of online submission is on or before 5.00 P.M. of Dt. 11.01.2022  For Cover-III & Cover-IV, time and date of offline submission is on or before 11.00 A.M on 12.01.2022 in the office of the Employer.

<b>Sl. No.</b>	<b>Reference</b>	<b>As per Corrigendum No.1</b>	<b>As Modified</b>																																	
6	Corrigendum 1: Sl. No. 6	<p>Experience of successful completion of works / substantial completion of “Similar Works”</p> <p>(90% of the value of the contract to be considered as substantial completion) as referred in Bid Data Sheet Cl. 4.4.A(b).</p> <p><b>Similar Works shall mean “Any multi-storeyed building complex of building height of at least 15 metres executed during the last 5 years in Design &amp; Build mode”</b></p> <p>The bidder must furnish the list of such works in the proforma stated in Cl. 1.3.1. in Section 2 (Qualification Information).</p>	<p>Experience of successful completion of works / substantial completion of “Similar Works”</p> <p>(90% of the value of the contract to be considered as substantial completion) as referred in Bid Data Sheet Cl. 4.4.A(b).</p> <p><b>*Similar Works shall mean “Any Infrastructure Development Project executed during the last 5 years”</b></p> <p>The bidder must furnish the list of such works in the proforma stated in Cl. 1.3.1. in Section 2 (Qualification Information).</p> <p><b>*This definition of Similar Works shall supersede any other definition used for Similar Works in the RFP document.</b></p>																																	
7	Section-7 Drawings & Sub- Soil Exploration Reports	<p><b>As per IFB</b></p> <table border="1"> <thead> <tr> <th colspan="3">TYPE VI &amp; VII</th> </tr> <tr> <th><b>SI No</b></th> <th><b>DRAWING TITLE</b></th> <th><b>DRAWING NO.</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>EXISTING SURVEY PLAN</td> <td>Drg.No/OBCC/GADP/ Type VI.VII/01/SD</td> </tr> <tr> <td>2</td> <td>SITE PLAN &amp; BASEMENT PLAN</td> <td>Drg.No/OBCC/GADP/ Type VI.VII/02/SP BP</td> </tr> <tr> <td>3</td> <td>FLOOR PLANS</td> <td>Drg.No/OBCC/GADP/ Type VI.VII/03/FP</td> </tr> <tr> <td>4</td> <td>COMMUNITY HALL PLANS</td> <td>Drg.No/OBCC/GADP/ Type VI.VII/04/CH</td> </tr> </tbody> </table>	TYPE VI & VII			<b>SI No</b>	<b>DRAWING TITLE</b>	<b>DRAWING NO.</b>	1	EXISTING SURVEY PLAN	Drg.No/OBCC/GADP/ Type VI.VII/01/SD	2	SITE PLAN & BASEMENT PLAN	Drg.No/OBCC/GADP/ Type VI.VII/02/SP BP	3	FLOOR PLANS	Drg.No/OBCC/GADP/ Type VI.VII/03/FP	4	COMMUNITY HALL PLANS	Drg.No/OBCC/GADP/ Type VI.VII/04/CH	<p><b>As Modified</b></p> <table border="1"> <thead> <tr> <th colspan="3">TYPE VI &amp; VII</th> </tr> <tr> <th><b>SI No</b></th> <th><b>DRAWING TITLE</b></th> <th><b>DRAWING NO.</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>EXISTING SURVEY PLAN</td> <td>Drg.No/OBCC/GADP/ Type VI.VII/01/SD</td> </tr> <tr> <td>2</td> <td>UNIT PLAN OF TYPE- VII QUARTER</td> <td>Drg.No/OBCC/GADP/ Type VII/05/FP</td> </tr> <tr> <td>3</td> <td>COMMUNITY HALL FLOOR PLANS</td> <td>Drg.No/OBCC/GADP/ Type VI.VII/04/CH- R1</td> </tr> </tbody> </table> <p>Google drive link for survey plan:</p> <p><a href="https://drive.google.com/drive/folders/1uDUDUus1Q1_7b0onY_9ZQ9rQL80-JYA9we?usp=sharing">https://drive.google.com/drive/folders/1uDUDUus1Q1_7b0onY_9ZQ9rQL80-JYA9we?usp=sharing</a></p>	TYPE VI & VII			<b>SI No</b>	<b>DRAWING TITLE</b>	<b>DRAWING NO.</b>	1	EXISTING SURVEY PLAN	Drg.No/OBCC/GADP/ Type VI.VII/01/SD	2	UNIT PLAN OF TYPE- VII QUARTER	Drg.No/OBCC/GADP/ Type VII/05/FP	3	COMMUNITY HALL FLOOR PLANS	Drg.No/OBCC/GADP/ Type VI.VII/04/CH- R1
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- SI No.08** : Please refer to the revised Section- 8 (Terms of reference, design brief & Scope of work) attached as Annexure-I.
- SI No.09** : Please refer to the revised Section- 9 (Payment Schedule) attached as Annexure-II.
- SI No.10** : Please refer to Pre-bid queries attached as Annexure-III.
- SI No.11** : The Corrigendum shall be the part of the RFP documents
- SI No.12** : All the items specified in this corrigendum supersede relevant items to that effect as provided in the original RFP documents/ Corrigendum.
- SI No.13** : All other terms and conditions remain unchanged.



23/12/21

EIC-cum-Managing Director

**SECTION-8**  
**TERMS OF REFERENCE, DESIGN BRIEF &**  
**SCOPE OF WORK**

**Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at  
MLA Colony and G.A. Land in Unit-IV, Bhubaneswar.**

## Table of Contents

### **A. GENERAL INFORMATION**

- (a) General Requirements
- (b) Design Intent
- (c) Project details (Type-VI & Type-VII quarters)
- (d) Mandatory Requirements

### **B. TIMELINE FOR SUBMISSIONS**

### **C. SERVICES TO BE PROVIDED BY THE EMPLOYER**

### **D. SECRECY**

### **E. APPENDICES**

#### **(1) APPENDIX – I (A) : DESIGN SCOPE**

- (a) General :
- (b) Green Building Practice
- (c) Project Management, Clearances & Certification

#### **(2) APPENDIX – I (B) : SCOPE OF BUILDING WORK**

- (a) Scope for Civil Work
- (b) Scope for WS & SI Work
- (c) Scope for Electrical Work

#### **(3) APPENDIX II SCHEDULE OF FINISHES**

#### **(4) APPENDIX-III : LIST OF ACCEPTABLE MAKES**

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## **TERMS OF REFERENCE, DESIGN BRIEF & SCOPE OF WORK**

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The project shall be executed on a **LUMP SUM TURNKEY BASIS**, scope consisting of the survey, planning & design (architectural, structural, landscaping, non-structural and interior design), execution, completion, obtaining required statutory clearances and handing over of the project to the Employer including O&M.

### **(A) GENERAL INFORMATION**

Bhubaneswar is the capital city of Indian state Odisha. It is known to be the economic and cultural center of Eastern India. It has a unique position among the cities of India, recognized as one of modern India's first planned city. This modern city was designed by German architect Otto Konigsberger in 1946. Although Bhubaneswar was formally established in 1948, the history of the areas in and around the present-day city can be traced to 7th century BCE and earlier. It has a testament to an ancient continuous architectural and historical heritage covering over 2,000 years.

Urban development area of Bhubaneswar consists of Bhubaneswar Municipal Corporation area, 173 revenue villages and two municipalities spread over 393.57 square kilometers. The city is broadly classified into old town, planned city, added areas and outer peripheral areas. It is further divided into units and colonies. Bhubaneswar is categorized as a Tier-2 city. As it is the capital city of Odisha, the city is filled with all administrative offices, headquarters including Loka Seva Bhawan and Lower House (Bidhan Sabha of Odisha).

According to the estimation of GA & PG Department, Govt. of Odisha, it is identified that there is a shortfall of 1500 nos. of Government quarters in the capital city. Further, Govt. quarters built about 60 years ago have started deteriorating demanding major maintenance. Hence there is need for creation of new accommodation for Government employees. The Govt. has decided to initiate a programme named as 'Capital Redevelopment Project' (CRDP) in the city. The programme shall focus on building Type-VI and Type-VII multi-storeyed residential quarters on an area of 17.66 acres at MLA Colony and G.A. land in Unit-IV, Bhubaneswar. The quarters will be built as per multi storey apartments, CPWD norms, 2012 guidelines for various categories of employees. CPWD and NBC-2016 standards need to be followed for all items of works, with a minimum of GRIHA- 3-star rating.

The Operation and Maintenance (O&M) of all civil, PH, electrical and mechanical components of the buildings are to be taken up for at least 5 years from the date of handover. In case, the contractor fails to provide the requisite O&M for the specified time period, the same shall be executed through other agencies and the cost shall be realized from the performance security available with the employer.

(a) **General Requirements:**

- i. Entry and exit from main access road should be provided.
- ii. Project shall consist of Construction of 195 nos. Type- VI & 105 nos. Type- VII Quarters at MLA colony & G.A. Land in Unit-IV, Bhubaneswar.
- iii. The building shall be planned to achieve minimum GRIHA 3\* Rating.
- iv. The building shall be fire safety compliant and facilities in the campus shall include Security surveillance System, First Aid facility and other required services as per statutory norms.
- v. Power Load calculation to be done by the bidder but the quantity mentioned in the project details is the minimum requirement, keeping in view the load requirement and reliability of power. Supply shall be taken as 33 KV/ 11 KV or as available from the grid based on the assessed load.
- vi. DG set shall cater to all common areas, Emergency facilities, Community halls and 1KVA load to each Dwelling Unit, the load calculation to be done by the bidder but the quantity mentioned in the project details is the minimum requirement.
- vii. **The Contractor/developer is responsible to obtain approval of drawings, environmental clearance (if any), clearance from Airport authority of India and all other statutory clearances from the competent authorities as may be required for the project.**
- viii. The Contractor shall obtain approval to the design, drawings and specifications of all components of the building, except those for the temporary works as stated at Cl. 18.1, of section-1 from any National Institute of Repute/ Odisha State Institute of Repute at its own cost. Such approved documents need to be furnished to the Employer within the stipulated deadlines as mentioned in the contract data.
- ix. The contractor shall have to obtain the approval of the drawings from the Engineer In charge before execution.
- x. The agency should develop its own plan and elevations without changing the conceptual design intent. All value addition to refine the functional aspects are to be undertaken by the selected contractor. The minimum unit areas are to be as per CPWD GPRA norms
- xi. All reinforcement shall be corrosion resistant steel rebar complying with all relevant codal provisions.
- xii. The Fire safety requirement shall be as per NBC 2016 (PART- 4) and obtaining NOC and clearance certificate from the relevant authority is the responsibility of the Contractor.
- xiii. Service area for placing HT/LT panels, pump houses, service block, transformer, DG set, Fire tanks & STP etc. shall be provided.

**(b) Design Intent:**

The design considerations suggested are indicative and minimal. The agency shall improve upon them and provide the best possible technology and materials to get the state-of-the-art output.

- i. *The construction work shall be executed in high temperature and humidity conditions with annual rainfall intensity as per IMD data, and the maximum cyclonic wind speed to be taken as per IS 875: 2015. The site is situated in the Seismic Zone-III. The design wind speed to be 250 Km/h.*
- ii. *Indicative Soil Classification (As per Sub soil exploration report enclosed). The agency must conduct geotechnical & geophysical investigations at its own cost and consider the dewatering aspect (if required), which shall critically affect the structural design, construction, and waterproofing of the structures as well as the construction time.*
- iii. *General provisions, stipulations, guidelines and rules laid down in the National Building Code, 2016 shall be adopted for all structural, waterproofing, fire, functional, legal, regulatory, obligatory, safety requirements for the buildings and the building services including plumbing and solid waste management with a view to deliver an integrated facility for the intended purpose, considering the design parameters well.*
- iv. *All the amenities, facilities and provisions with regard to the scope of work shall be provided as per the norms and guidelines of National Building Code-2016 (NBC) norms. In addition, other provisions of the NBC shall be applicable for Fire and life safety of the building and amenities for differently abled persons.*
- v. *Requirements and stipulations of Planning and Building Standards Regulations of Bhubaneswar Development Authority must be adhered to. Buildings must be designed to achieve minimum GRIHA 3 Star rating. Accordingly, conservation measures with respect to water and energy as well as recycling of wastes are to be considered.*
- vi. *Prepare detailed designs and drawings for architectural floor plans, elevations, sections and detailing thereof, drawings for structural works, fire and life safety and building services such as electrical works, MEP, Lifts, Information & Communication Enabled ELV Installations, plumbing services, landscaping, signage and outer display structures/ installations as per scope, following the latest BIS/IRC codes for materials, design and construction, relevant ODA norms, NBC, CPWD Specifications and IRC-SP-12-2015 etc. must be followed.*

Note: In the absence of any definite provision in the technical specifications contained herein, reference may be made to the latest CPWD, MORTH, IRC, CPCB, GRIHA, NBC and IS codes, in that order. Wherever these are silent, the construction and completion of the works shall conform to sound engineering practice and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer-in-Charge shall be final and binding on the Contractor.

vii. *The building shall be designed with minimum accessibility provisions as per residential building and other relevant sections of the NBC 2016. Therefore, all the occupancies shall be governed by the most restrictive provisions of the Code among those applicable for individual occupancies. The provisions for life safety given in the Code for individual occupancy shall apply to the respective occupancies.*

viii. *Toilet requirement with WC, Urinal, Wash basins, Cleaners Sink, drinking water Fountain /water ATM shall be based on the applicable standards.*

ix. *Recycled waste and rainwater for use in flushing and gardening.*

x. *Electrical: 33kV/0.433kV or 11kV/0.433 kV substation equipment comprising HT Panel, Dry type Transformers (CSS), HT cable, Bus trunking from Transformer to LT Panel, LT Panel, Automatic Power factor correction panel, Active Harmonic Filters, TVSS (Transient Voltage Suppression System), SPD (Surge protection system), Essential panel, Earthing, required inter-connections, substation safety equipments including LT cabling from substation to the buildings fed by the substation. Indicative capacity of the substation is minimum as mentioned in the project details.*

*DG Set: Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation/ventilation/smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required. Indicative capacity is minimum as mentioned in the project details.*

*Indicative design intents for the building have been provided in the following table.*

<u>Sl.</u>	<u>Item</u>	<u>Details</u>
<b>General Provision</b>		
1	Staircase	The requirement shall be based on the applicable standards.
2	<b>Water Supply &amp; Sanitary Installation Services</b>	
2.1	Requirement of Toilet with WC, Urinal, Wash basins, Cleaners Sink, Drinking water Fountain	The requirement shall be based on the applicable standards.
2.2	Water Storage, STP and firefighting.	i. Total Water Demand: As per requirement/ NBC guidelines ii. STP: As per requirement/ NBC guidelines iii. Fire Demand: As per NBC- 2016/ Odisha Fire prevention and fire safety rules 2017.
2.3	Recycled water	To be used in flushing and landscaping.

<b>3</b>	<b>Services</b>	
3.1	33KV/0.433KV or 11KV/0.433 KV substation	Indicative capacity of the substation is minimum as mentioned in the project details. If it is calculated to be more by the bidder has to be provided
3.2	DG Set	Indicative capacity of the DG set is minimum as mentioned in the project details. If it is calculated to be more by the bidder has to be provided.
3.3	The fire safety provisions with an automatic fire alarm system, wet riser, automatic sprinkler system and manual fire alarm system in the amenity blocks.	As per statutory requirement (NBC 2016 and Local fire norms etc.)
3.4	Internal road with pigmented paver blocks / concrete cobble stone and kerb stone edging on both sides.	As per statutory requirement (NBC- 2016 & as per IRC SP 63:2018 (Table 1 Traffic Axle Load Repetitions less than 10 msa, Residential Streets))
3.5	CEMENT CONCRETE PAVEMENT (Basement & approach ramp with cement concrete pavement with vacuum dewatered concrete)	As per statutory requirement (NBC- 2016 & CPWD specifications and vetted design specifications for vehicle use (fire tender / bus / cargo loaded truck))
3.6	Landscaping (Horticulture operation including earth filling, grassing, tree plantation / shrubs and potted plants etc)	As per statutory requirement (NBC- 2016 & CPWD Specifications).
3.7	Supplying, installation, testing and commissioning of LED street/compound/ high mast/pathway/landscape lighting for the entire campus	As per statutory requirement (NBC- 2016 & CPWD Specifications).
3.8	Rainwater Harvesting	As per statutory requirement (NBC- 2016 & CPWD Specifications).
3.9	supplying, installation, testing and commissioning of online 3 phase UPS system with 30 minutes backup including batteries, interconnecting cable, battery rack etc	As per statutory requirement (NBC- 2016 & CPWD Specifications).

### **(c) Project Details.**

The project shall be executed on a Lump Sum Turnkey/ Engineering Procurement Construction model, scope consisting of the survey, planning & design (architectural, structural, landscaping, non-structural, interior work, all external services etc.), execution, completion, obtaining required statutory clearances and handing over of the project to the Employer. The Scope of Work for the projects is mentioned below:

## **1. CONSTRUCTION OF MULTI STOREY TYPE-VI & TYPE-VII QUARTERS AT MLA COLONY AND ADJACENT GA LAND IN UNIT-IV, BHUBANESWAR**

Construction of 195 nos. Type- VI Quarters and 105 nos. of Type- VII Quarters in the form of multi storeyed buildings is proposed on a total area of 17.66 acres at MLA Colony and adjacent GA land in Unit-IV, Bhubaneswar.

The unit area of Type- VI Quarters will be as per CPWD GPRA- 2012 plinth area norms, and the requirements and the unit area for Type- VII Quarters is as per the indicative plan attached in Section- 7 of the IFB. The Type- VI and Type-VII Quarters will be planned in separate Towers. The multi storeyed buildings should have adequate basement floor parking with provision of Two cars for each unit in compliance to ODA/ NBC norms. Infrastructures like internal & external water supply, underground and overhead water storage tank, fire storage tank, Sub-stations, CCTV, Wifi facility, fire and life safety provisions have to be incorporated as per ODA rules and NBC-2016 guidelines along with DG backup for lift, common area lighting, community halls and 1 KVA load for each Dwelling unit. Other miscellaneous works such as rainwater harvesting and ground water recharging, installation of sewerage treatment plant, storm water drain and grid interactive roof top solar panels as per net available roof area are to be provided in order to comply at least GRIHA- 3 star/ IGBC GOLD rating.

In ground floor of each Tower, there will be one security room with attached toilet, Gymnasium for the residents of the Tower etc. with other required facilities.

Two nos.-Multi storeyed Community Hall shall also be provided with a total plinth area of 4500 sqm. with facilities like air-conditioned multi-purpose hall, air-conditioned dining hall, kitchen, washroom facilities for both ladies and gents, police control room, railway reservation counter, Cafeteria, Homeopathic, Ayurvedic and Allopathic Dispensary, 20 nos. air-conditioned VIP guest rooms with attached toilets with all modern facilities, shops of different sizes in ground floor as per the requirement of the residents, Lift and staircase as per requirement. Indicative drawing attached in section -7 of IFB.

### **1.1 Project Location:**

The site is located in the core area of the city along Gopabandhu Marg, in front of OMC office and near Ravindra Mandap at Unit-IV. It is spread across an area of 17.66 acres of land.

### **1.2 Project Features (General):**

- i.Mode of Development: Turnkey
- ii.Passenger elevators
- iii.Fire Exit lift and staircase
- iv.Basement floor parking

- v.Fire & Life Safety provision
- vi.DG Backup for lift, common area lighting and 1 KVA to each dwelling unit.
- vii.UPS backup for emergency lighting, CCTV, intercom, and smoke detectors etc.
- viii.CCTV surveillance
- ix.WIFI facility
- x.Rainwater harvesting and ground water recharging
- xi.Under ground and overhead water storage tank
- xii.Storage tank for fire fighting
- xiii.Sewerage Treatment Plant
- xiv.Roof top Solar Panel
- xv.Storm water drain
- xvi.Gymnasium hall in each Tower in ground floor (without equipment)
- xvii.Tennis courts. (Two nos.)
- xviii. Badminton court (four nos.)
- xix.Multi storeyed Community Hall (Two nos.) with followings as per the indicative drawing attached
  - 1. Railway reservation counter (one no.)
  - 2. Police outpost (one no.)
  - 3. Railway reservation counter (one no.)
  - 4. Allopathic, Ayurveda & Homeopathic Dispensary (one each)
  - 5. Shops (Ten nos.)
  - 6. Gents and Ladies parlor
  - 7. VIP Guest rooms (Twenty nos.)
  - 8. Multipurpose hall (Two nos.)

### 1.3 Project Description:

Sl. no	Description	Provision/ Estimation	
<b>General Provision</b>			
1	Group of Occupancy	Group A- Residential	Cl No. 7, Part-III of NBC, 2016
2	Occupant Load	As per NBC 2016	
3	Plot Area at Unit-IV	17.66 Acres	71,468 Sqm
4	Area of one Unit of Type- VI Quarter	254.50 Sqm (CPWD GPRA- 2012 norms)	
5	Area of one Unit of Type- VII Quarter	356.50 Sqm (CPWD GPRA- 2012 norms) Requirements are as per the indicative drawing attached	
6	Existing Front Road width (South Side)	15 M	
7	Existing Side Road width (East Side)	10 M	
8	Existing Side Road width (West Side)	30 M	
9	Total No. of Dwelling Unit in Type- VI Quarters	195 Nos.	
10	Total No. of Dwelling Unit in Type- VII Quarters	105 Nos.	
<b>Other Details</b>			
1	Lift and Staircase as per ODA rules/ NBC-2016 guidelines with ARD		

### 1.4 Type-VI Quarters: (Detail Scope)

<b>Area Statement</b>	
Total Built up area including basement, all floors and all utilities	As per requirement in conformity to ODA rules/ NBC-2016 guidelines
<b>Water Supply &amp; Sanitary Installation Services.</b>	
Internal and External Water supply & Sanitary Installation	As per CPWD norms and codal provisions
S.T. P	As per codal provision
O.H. Water tank	As per codal provision
U/G sump	As per codal provision
<b>Electrical Services</b>	
Internal electric installations	all floors
External electric installation	all floors
Solar photo voltaic power generation system	Roof top
CCTV	Basement, Stilt, Services and common area
WIFI	As per requirement
Lightning Conductor	As per codal provision
Power wiring and installation in all dwelling units in all floors.	As per codal provision
Centralized intercom system	As per codal provision

Passenger Elevators	As per codal provision
Fire prevention and firefighting arrangement as per Odisha Fire prevention and fire safety rules 2017/ NBC 2016	As per codal provision
33kV/0.433kV or 11kV/0.433 kV substation	3000 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation / ventilation / smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required.	1000 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc.	150.00 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of VRF Air conditioning System (For each dwelling unit, 1 no. 10 HP capacity outdoor unit with matching indoor units of 2 HP to 3 HP capacity in bedrooms and office room.)	1950 HP (Minimum Indicative)

### 1.5 Type-VII Quarters: (Detail Scope)

<b>Area Statement</b>	
Total Built up area including basement, all floors and all utilities	As per requirement in conformity to ODA rules/ NBC-2016 guidelines
<b>Water Supply &amp; Sanitary Installation Services.</b>	
Internal and External Water supply & Sanitary Installation	As per CPWD norms and codal provisions
S.T.P	As per codal provision
O.H. Water tank	As per codal provision
U/G sump	As per codal provision
<b>Electrical Services</b>	
Internal electric installations	all floors
External electric installation	all floors
Solar photo voltaic power generation system	Roof top
CCTV	Basement, Stilt, Services and common areas
WIFI	As per requirement
Lightning Conductor	As per codal provision
Power wiring and installation in all dwelling units in all floors.	As per codal provision
Centralized intercom system	As per codal provision
Passenger Elevators	As per codal provision

Fire prevention and firefighting arrangement as per Odisha Fire prevention and fire safety rules 2017/ NBC 2016	As per codal provision
33kV/0.433kV or 11kV/0.433 kV substation	2500 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation / ventilation / smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required.	750 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc.	100 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of VRF Air conditioning System (For each dwelling unit, 1 no. 10 HP capacity outdoor unit with matching indoor units of 2 HP to 3 HP capacity in bedrooms and office room.)	1050 HP (Minimum Indicative)

### 1.6 Community Hall (2 nos.): (Detail Scope)

Sl. no	Description	Provision/ Estimation
<b>General Provision</b>		
1	Total Built Up area of two blocks	4,500 Sqm
<b>Requirements:</b>		
<b>Community Hall 1 (Indicative Layout)</b>		
1	<b>Ground Floor</b>	Allopathic Dispensary Homeopathic Dispensary Ayurvedic dispensary All with Doctor's room and Toilets
2	<b>First Floor</b>	Guest rooms with attach toilets- Kitchen, Dining Gent's Parlor Toilet blocks (Ladies & Gents)
3	<b>Second Floor</b>	Multipurpose hall Waiting room Toilet blocks (Ladies & Gents)
<b>Community Hall 2 (Indicative Layout)</b>		
1	<b>Ground Floor</b>	Shops Multipurpose shop/ cafe Police out post Railway reservation counter Toilet blocks (Ladies & Gents)
2	<b>First Floor</b>	Guest rooms with attach toilets Kitchen, Dining Ladies Parlor Toilet blocks (Ladies & Gents)

3	<b>Second Floor</b>	Multipurpose hall Waiting room Toilet blocks (Ladies & Gents)
<b>Water Supply &amp; Sanitary Installation Services.</b>		
Internal and External Water supply & Sanitary Installation		As per CPWD norms and codal provisions
O.H. Water tank		As per codal provision
<b>Electrical Services</b>		
Internal electric installations all floors		all floors
External electric installation		all floors
CCTV		Basement, Stilt, Services and common area
Power wiring and installation in all dwelling units in all floors.		As per codal provision
Centralized intercom system		As per codal provision
Passenger Elevators		As per codal provision
Fire prevention and firefighting arrangement as per Odisha Fire prevention and fire safety rules 2017/ NBC 2016		As per codal provision
33kV/0.433kV or 11kV/0.433 kV substation		250 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation / ventilation / smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required.		100 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc.		50 KVA (Minimum Indicative)
Supplying, installation, testing and commissioning of Grid interactive roof top solar photo voltaic power generation system including space frame		10 kWp (Minimum Indicative)
Supplying, installation, testing and commissioning of VRF Air conditioning System.). outdoor capacity of 10 HP to 20 HP units with matching indoor units of 2 HP to 3 HP capacity in Guest rooms, Dining areas, and second floor multipurpose halls.		200 HP (Minimum Indicative)

### 1.7 Miscellaneous Works:

1	Approach paths and tennis courts with cement concrete pavement with vacuum dewatered concrete	As per detailed design
2	Trenches for services	As per detailed design
3	Storm water drain	As per requirement
4	Rainwater Harvesting	Considering total roof area
5	Internal road with pigmented paver blocks / concrete cobble stone and kerb stone edging on both sides.	As per detailed design
6	Boundary wall with 1.5 m, normal height from GL & 600 mm high MS grill and required no of steel gates/wicket gates etc with load bearing brick wall and plastering on either side and with/without intermediate columns and plinth beams.	All around the area
7	Horticulture operations including minimum 30 cm earth filling, grassing, tree plantations/shrubs and potted plants etc.	As per detailed design
8	Providing and fixing of customized Aluminium formwork for monolithic construction RCC members with a repetitive usage of 100 times using grade 5052 aluminium for panel sheets of minimum 4 mm thick and grade 6061 (Type-6) aluminium for extruded sections. The form work includes of beam components i.e. beam side panel, prop head for soffit beam, beams soffit panel, beam soffit bulk head and deck components i.e. deck panel, deck prop, prop length, deck mid, soffit length, deck beam bar and wall components i.e. wall panel, rocker, kiker and internal soffit corner, external soffit corner, external corner, internal corner etc., The panels are held in position by a simple pin and wedge system that passes through holes in the outside rib of each panel. The tolerance of finished panels to be (-1 mm) and shall conform to IS 14687-1999. Pins and wedges to be made of high-grade mild steel, all complete as per direction of Engineer-in-charge. (Cost will be paid if RCC walls executed)	As per requirement
9	Streetlighting and area lighting	Total area

## **1.8 Drawing References**

The uploaded drawings are indicative in nature and the bidder shall furnish drawing details as per CPWD-GPRA, ODA and other relevant guidelines.

<b>SL.NO</b>	<b>DRAWING TITLE</b>	<b>DRAWING NO.</b>
1	EXISTING SURVEY PLAN	Drg.No/OBCC/GADP/Type VI, VII/01/SD
2	UNIT PLAN OF TYPE- VII QUARTER	Drg.No/OBCC/GADP/Type VII/05/FP
3	COMMUNITY HALL PLANS	Drg.No/OBCC/GADP/Type VI, VII/04/CH- R1

## **(d) Mandatory Requirements:**

### i.Waterproofing:

Provisions for water proofing of basement, STPs, sumps, water tanks, toilets, roof and expansion joints must be considered by the bidder in the scope of the project and no deletion/ relaxation of waterproofing items shall be allowed in any of these items, under any circumstances. For detailed specifications, bidder must refer to Section 5: Waterproofing

The SOP for Waterproofing shall be a part of the Scope of Work (Section-8) of the RFP.

SOP for Waterproofing

1. All concrete work in wet areas & all roofs to be treated with crystalline waterproofing.
2. All basements concrete works should primarily have membrane water proofing of appropriate type in addition to crystalline waterproofing.

### ii.Landscape:

The bidder shall have to provide landscaping in all possible locations, and not limited to the following areas only.

- a. Landscaping of the entire area where hard constructions are not done
- b. General plantation (Trees to be planted should be fully grown of above 4 meters height). No. of trees will be decided as per design of the landscape designer within the area mentioned.
- c. Beautification works: Pathways, open staircases, lobby approach ramps, terraces to be beautified with plants in planter boxes.

The bidder shall maintain the landscaping during the entire construction period till handing over (excluding DLP) and submit future maintenance plan along with tentative maintenance cost at the time of handing over.

### iii.Anti-termite treatment:

Anti-termite treatment to be done by drilling holes @ 300mm c/c both ways upto soil level and filling with solution of Chlorpyrifos 20 EC or Lindane 20 EC and outside of the wall using Chlorpyrifos 20 EC or Lindane 20 EC as per IS 6313 (Part 1, 2, 3): 2001 etc. complete as per directions of Engineer- in charge.

## **B. TIMELINE FOR SUBMISSIONS**

This period includes time period for all types of survey & investigation, soil exploration and laboratory testing, detail design, the draft and final design reports, drawings, technical specifications, methodology as required for the work and all other associated reports and documents.

The time period for the design stage is **120 days** from the date of commencement.

<b>Sl. No.</b>	<b>Description</b>	<b>Schedule for Submission</b>
1.	Submission of Inception Report Review of applicable statutory approvals/ NOC required from relevant authorities, SPCB and Fire Authority	15 days from the date commencement
2.	Details of all Survey including laboratory test reports for construction materials and design mixes	60 days from the date commencement
3.	Submission of draft architectural drawings with detailed Engineering Designs and technical specifications & methodology.	45 days from the date commencement
4.	Final architectural drawings with detailed Engineering Designs and technical specifications & methodology; to be submitted in three phases.	60 days from the date of submission/ approval of draft phases drawings
5.	Quality Management Manual & Environment, Health and Safety Manual	30 days from the date of commencement
6.	Monthly Progress Reports along with updated abstract of changes during construction	10 <sup>th</sup> day of succeeding month
7.	As Built Drawings	As provided in Contract Data
8.	Consolidated Booklet Containing all Approvals, Clearances, NOCs in connection with the project	With as-built drawings
9.	Inventory with Warranties and User Manuals	With as-built drawings

## **C. SERVICES TO BE PROVIDED BY THE EMPLOYER**

The Employer will provide the following data to the Bidder on request if available.

- Indicative Sub-soil report and other associated data.
- Site plan.
- Any other relevant secondary data, to the extent available in a comprehensive manner.
- Application for all statutory approval shall be made by the employer. However, contractor will conduct relevant survey, prepare all drawings, documents, presentations and will facilitate to get all statutory approvals from competent authority.

The Employer will not provide office accommodation, vehicles, survey or any other equipment to the Contractor. The Bidder shall make his own arrangement for their office staff for each of the field supervision teams including furniture, equipment, operation and maintenance, vehicles, and equipment at his own cost.

## **D. SECRECY**

The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have noticed that the Indian Official Secrets Act 1923 applies to them and will continue to apply even after the execution of such works under the contract. The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and for the purpose of the contract.

All documents, copies thereof & extracts there from furnished to the contractor or submitted by the Contractor shall be returned to the Employer on the completion of the work / works or on earlier determination of the contract. All the drawings, designs and documents of this project shall be the property of the Employer and shall not be reproduced by the Contractor either full or by part, for any purpose whatsoever may be, without written permission of the Employer, any time afterwards, once the As Built submission is over and complete. The Bidder may retain a copy of such documents but shall not use these documents for purposes unrelated to this Contract without the prior written approval of the Client.

## **E. APPENDICES**

### **(1) APPENDIX – I (A): DESIGN SCOPE**

The bidder has to submit his Design Basis Report covering all aspects as given below or more with specific details and not generically.

#### ***a) General:***

The project shall be executed on a Lump Sum Turnkey basis. General scope of the work of the project shall include but not limited to the following:

i.Development of architectural drawings including preparation of architectural brief, design concept, concept for services etc. It may be noted that the concept plans forming part of the Bid documents shall be the basis for this. This would also include high resolution renderings as may be required and a walkthrough not exceeding 3 mins with voice over (bi-lingual) and suitable subtitles.

- ii.Carrying out field surveys and detailed engineering design, and development of drawings considering the architectural design and construction documents, structural engineering, electrical engineering, heating ventilation and air conditioning plans, communication and networking plan, fire detection and protection plan, landscape design both horizontally and vertically exterior and interior.
- iii.Preparation of services plans to include all details of plans, elevations and sections with details of electrical works, ventilation, water supply, drainage & sewage disposal system and rainwater harvesting system.
- iv.Carrying out Geotechnical Investigations and Sub-Soil Exploration at each proposed building location and conduct all relevant laboratory and field tests on soil and rock samples (If required). Soil bores duly indicating the classification of soils within a bore log chart and soil test reports are to be conducted in Govt. of Odisha approved soil testing laboratory on undisturbed and disturbed samples for all the geo-technical parameters.
- v.Preparation of Key map (at relevant scale) showing the location of the buildings investigated and rejected and the important structures, in the vicinity. The reference to the position of the benchmark, location of the trial pits or bore-holes giving identification number for each bore connected to the datum and location of all nullahs, buildings.
- vi.Procurement, installation, testing and commissioning of requisite equipment as per specifications provided. Samples of all materials required for testing is included in the cost of work. Expenditure for testing in house or through external laboratory shall be completely borne by the contractor including cost of transportation of samples to the testing locations or laboratories.
- vii.The acceptable makes of various finishing items, fittings/ fixtures/ equipment/ components/ accessories have been mentioned in the *List of Acceptable Makes/Approved manufacturers list*. The Contractor shall get the samples of these items approved by the Employer before their use/ utilization in the works. Alternate makes are not acceptable without the approval of Employer.
- viii.Covid-19 requirement should be adhered to all designs, execution wherever applicable. The price quoted by the contractor shall deem to include all expenses towards material, labour, transportation, machinery, camp arrangements or all other conditions as required by the guidelines issued by the Government.

### **b) Green Building Practice**

- i. The contractor shall ensure that adequate measures are taken for the prevention of erosion of the topsoil during the construction phase.
- i.The Contractor shall arrange to work so as to minimize site disturbance such as soil pollution due to spilling and use staging and spill prevention and control plan to restrict the spilling of the contaminating material on site.
- ii.The contractor shall not carry out any work which results in the blockage of natural drainage.

- iii.The contractor shall ensure that existing grades of soil shall be maintained around existing vegetation and lowering or raising the levels around the vegetation is not allowed unless specifically directed by the Engineer
- iv.Contractor shall reduce pollution and land development impacts from automobiles use during construction.
- v.The Contractor shall not do overloading of trucks which is unlawful and when loose materials like stone dust, excavated earth, sand etc. are moved, must ensure proper covering.
- vi.All building materials responsible for pollution shall be brought at site from sources covered by tarpaulin and shall take all precautionary measures to ensure that no dust particles are permitted to pollute the air quality. The contractor shall ensure that air pollution due to dust/generators is kept to a minimum, preventing any adverse effects on the workers and other people in and around the site.
- vii.The Contractor shall identify roads on-site that would be used for vehicular traffic and upgrade the vehicular roads, if they are used for hauling materials for the project.
- viii.It would be in the scope of the Contractor to ensure that all GRIHA Guidelines are adhered to at the stage of planning, design & execution.
- ix.The Scope of work for Contractor, Architect, Electrical and PH consultants for adoption of GRIHA are as follows:

**❖ Scope of Contractor**

- (i) Demonstrate that the project team implements tree preservation measures at site. (Protect or Transplant or Replant in 1:3 ratio).
- (ii) Ensure that 90% of fertile topsoil from disturbed area (including building footprint vehicular pathways and material storage areas) is preserved.
- (iii) Adopt following construction management measures at site.
  - a) Provide 3 m high continuous barricading along the site boundary.
  - b) Provide wheel washing facility/gravel bed at all vehicular entrances and exits of the site.
  - c) Ensure diesel generator sets are in compliance with CPCB norms and have an exhaust with stack height of at least 2 m from the top of the generator with a cap.
  - d) Implement a spill prevention plan for storage of diesel, admixtures, curing compounds, bitumen, and other hazardous material.
  - e) Ensure that fine aggregate, excavated earth, and other construction material with a tendency to get airborne are covered or are sprinkled regularly with non-potable STP water.
  - f) Ensure sprinkling of water on unpaved pathways on the site with non-potable water in order to mitigate air pollution.
  - g) Limit the speed of vehicular movement on site to 10 km/h.
  - h) Ensure that vehicles carrying waste materials out of the site are covered.
  - i) Ensure that the soil erosion channels are constructed, and they are connected to a sedimentation tank in order to reduce movement of soil outside the site.

- j) Adopt staging during construction on site.
- k) Adopt following strategies to manage water during construction, such as-
  - o Using gunny bags for curing and using ponding for curing
  - o Monitoring to avoid leaks and water wastage
  - o Use of additives to reduce water requirements during curing
  - o Use of treated wastewater/captured storm water
- l) A construction waste management plan for segregation of construction waste, its safe storage and on-site/off-site recycling is developed and implemented in the project – 1 point.
- m) Ensure compliance with the requirements of NBC, 2016 for all of the following:
  - o Provision of necessary safety equipment and safety measures for construction workers.
  - o Provision of clean drinking water, hygienic working and living conditions, and sanitation facilities for the workers.
  - o Provision of crèche facility for children of construction workers in case their families are allowed to work/live at the construction site.
- n) Adopt the following for the construction workers on-site:
  - o Provide a grocery store/canteen within the site premises.
  - o Organizes at least two events during the entire construction phase to create environmental awareness among the construction workers.
- (iv) Ensure minimum replacement of OPC with BIS recommended waste materials (such as fly ash, slag, etc.) by weight of cement used in structural concrete.
- (v) Ensure minimum 5% replacement of natural aggregate with RCA/RA by weight of that category of aggregate in structural concrete.
- (vi) Ensure that all internal and external, load bearing, non-load bearing and partition walls are constructed with - Concrete blocks (hollow, solid or AAC) with minimum 40% fly ash content by weight And/ Or Porotherm blocks And/ Or Adobe bricks/CSEB And/ Or Rammed earth walls And/ Or Stones from India (not including stone cladding) And/ Or Bamboo/any other rapidly renewable material (not including bamboo cladding).
- (vii) Monolithic concrete wall demonstrating minimum 30% replacement of OPC with BIS recommended waste material by weight of cement.
- (viii) C&D waste blocks containing minimum 30% C&D waste material by weight.
- (ix) Ensure minimum 30% replacement of OPC with BIS-recommended waste by weight of cement used in masonry mortar and plaster.
- (x) Ensure that at least 70% of all roads and vehicular pathways within site premises are constructed with -
  - a. Bituminous road with minimum 6% plastic waste content by weight of bitumen And/Or
  - b. Cast in situ cement concrete road with minimum 30% fly ash content by weight of total cementitious material And/Or
  - c. Concrete blocks with minimum 40% fly ash content by weight of block And/ Or
  - d. Paver blocks containing minimum 10% C&D waste content by weight of block And/Or

- e. Stones from India And/Or
  - f. Any other manufactured product with minimum 10% recycled content by weight.
- (xi) Ensure that 100% of the pavement/footpath including kerbstone constructed on-site are constructed with -
- a. Bituminous pavement with minimum 6% plastic waste by weight of bitumen And/Or
  - b. Cast in situ concrete with minimum 30% fly ash content by weight of total cementitious material And/ Or
  - c. Concrete blocks with minimum 40% fly ash content by weight of block And/ Or
  - d. Paver blocks containing minimum 10% C&D waste content by weight of material And/Or
  - e. Stones from India And/Or
  - f. Any other manufactured product with minimum 10% recycled content by weight.
- (xii) Ensure that all interior wall and ceiling finishes such as primers, paints, putty, etc. have low VOC content and are lead free.
- (xiii) Ensure that all adhesives and sealants used have low VOC content and that interior composite wood products do not have urea-formaldehyde as a bonding resin.
- (xiv) Ensure that tobacco smoking is prohibited on-site during the entire construction phase.
- (xv) Adopt sustainable transportation within the site premises, such as - Provide at least four designated number of parking spaces for informal modes of transport within the site premises. And/Or Provide NMT vehicle with at least 10% of the total parking space designated to them onsite along with charging facility. Additionally, provide designated vehicular tracks for NMT vehicles. And/Or Provide bicycle users with at least 10% of the total parking space designated to them along with changing rooms, showers, lockers within the site premises.

#### **❖ Scope of Architect**

- (i) The building plan and site layout should adopt solar passive building design strategies to ensure adequate daylight in each living space.
- (ii) Demonstrate that the exterior fenestration is designed taking into consideration the window orientation, size, placement, and shading design to facilitate wind flow into the interior spaces.
- (iii) Provide adequate thermal insulation on Roof & Wall and Energy Efficient Glazing for Windows in order to reduce the heat gain through building envelope.
- (iv) Ensure that the WWR (Window to Wall Ratio) and SRR (Skylight to Roof Ratio) does not exceed the recommended value by ECBC-2017/ GRIHA.
- (v) Ensure that the windows meet the SHGC (Solar Heat Gain Coefficient) for each orientation should follow ECBC 2017, Clause 4.3.3, Tables 4–10.
- (vi) The VLT (Visible Light Transmittance) of Skylight and Windows should comply with recommended VLT value as per ECBC-2017 & GRIHA.

(vii) Ensure that the project complies with the provisions of Harmonised Guidelines and Space Standards for Barrier Free Built Environment for Persons with Disability and Elderly Persons as per NBC-2016.

(viii) Ensure provision of dedicated rooms (for resting) for service staff and toilets for the service staff on-site as per NBC-2016 (Volume 2, Part 9, Section 2, and Clause 4.2).

(ix) Ensure the indoor noise levels as per NBC 2016, Volume 2, Part 8, Section 4, Clause 3.4.3.3 by adopting following strategies -

- a. Interposing buffer zones in building plan
- b. Protection of habitable spaces by introduction of green belts (greater than 30 m with broadleaved evergreen trees), public gardens, etc.
- c. Positioning a less vulnerable building closer to the noise sources than the vulnerable buildings.
- d. Shading and screening by providing a solid barrier such as a wall.
- e. Provision of adequate sound insulation in building envelope (walls and roofs)

(x) Ensure that designated smoking zone/s is/are provided and the smoke is managed within a controlled environment.

(xi) Demonstrate reduction in landscape water demand by adopting efficient landscape design strategies, such as - Minimize the lawn area, Maximize the tree plantation, Maximum incorporation of native vegetation (Drought Tolerant Trees, Shrubs and other plants), Grouping of plant species as per the water requirement, Xeriscaping - Plants which are xero-phytic (palm) and minimize the water fountain concept in landscape plan etc.

#### **❖ Scope of Electrical Consultant**

(i) Ensure that the project meets the mandatory requirements of ECBC-2017.

(ii) Demonstrate that 100% of outdoor lighting fixtures (lamps + ballast) meet the luminous efficacy of 80 lm/W.

(iii) Demonstrate energy efficient lighting and air-conditioning system designing as per ECBC-2017 norms in order to reduce the EPI (kWh/m<sup>2</sup>) from GRIHA benchmark.

(iv) Ensure that the equipment installed within the project is either BEE-Star labelled or of equivalent performance.

(v) Ensure installation of On-site & Off-site renewable energy system to off-set a part of the annual energy consumption of internal artificial lighting and domestic hot water system (if any).

(vi) The fire extinguishers installed in the building are free of Halon.

(vii) All the insulation used in the building envelope and for HVAC systems; refrigerant used in the HVAC systems and refrigeration equipment are HFC free.

(viii) Artificial lighting design to fall within limits (lower and higher range limits) as recommended space/task specific lighting levels as per NBC-2016 (part-8, Section-1, Table-4) and meet a minimum uniformity ratio of 0.4.

(ix) Demonstrate that the spaces meet the thermal comfort requirements as per NBC 2016, ASHRAE 55, or the Indian Adaptive Comfort model, ensuring that the maximum number of unmet hours shall not exceed 300.

(x) Meet the minimum requirements of CPCB National Ambient Air Quality Standard (NAAQS) for quality of fresh air; and ASHRAE Standard 62.1–2010, Sections 4–7, Ventilation for Acceptable Indoor Air Quality (with errata) Or NBC-2005 for quantity of fresh air. The clause shall cover treatment of outdoor air for predominantly PM 10 and PM 2.5.

(xi) Ensure continuous monitoring of CO, CO<sub>2</sub>, temperature, and RH levels such that they meet the permissible thresholds as per ISHRAE standard 10001:2016, Table 6, for all habitable areas either at space level or at AHUs by installation of sensor(s) deployed with feedback system as per GRIHA.

(xii) Ensure improved indoor air quality by adopting Installation of indoor plants and/or Promoting use of carpets and mats at all entrances and/or Use of green cleaning products for housekeeping and/or Installation of separate exhaust system for janitor/storage rooms for chemicals and/or Installation of air curtains and/or Air sanitization and/or Demand control ventilation.

(xiii) Installing digital energy meters at Utility grid, on-site renewable energy system, DG set, gas genset and each building level etc.

(xiv) Install digital water meters at Municipal supply, Borewell, treated water outlet from STP (Grey/Black), Captured rainwater etc.

(xv) Ensure the installation of smart metering system, which is capable of tracking energy & water consumption through a web hosted portal for all meters mentioned above.

(xvi) All smart metering and monitoring systems should be capable of the following:

- a. Hourly data reporting in near real-time (no more than 15-minute delay).
- b. Energy mix breakdown and consumption patterns.
- c. Water consumption patterns from various sources
- d. Ability to set energy and water consumption targets, alarms, and pricing.
- e. Ability to compare historical trends and benchmark data
- f. Real-time monitoring with user interface that operates even on mobile devices

#### **❖ Scope of MEP Consultant**

(i) Use of water efficient plumbing fixtures, sensors, auto-control valves, and pressure reducing devices can result in significant reduction in water consumption in a building. Once the type and number of fixtures and faucets have been decided as per NBC standards based on building typology, select the fixtures and faucets of low-flow rates (based on technology options available in the market).

(ii) Adopt water efficient irrigation systems that saves water loss due to run-off, deep percolation, and evaporation; (i.e Drip irrigation, Moisture control sensor etc.).

(iii) Ensure that 100% of wastewater generated on-site is treated through either a chemical-based or natural wastewater treatment system.

- (iv) Ensure that 100% of wastewater is segregated (into grey water and black water) and treated independently on-site.
- (v) Recycle and reuse this treated water as much as possible.
- (vi) Install dual plumbing system to separate piping systems for recycled water (non-potable quality) and potable water.
- (vii) Rainwater harvesting (tanks, ponds, rooftop rainwater harvesting) to rebuild local water aquifers wherever feasible and/or storage of harvested water for meeting the water requirement during the scarcity days.
- (viii) Ensure that the project meets water quality norms as per the CPCB rules and BIS.
- (ix) Provide infrastructure (multi-colored waste bins/different refuse chutes to store e-waste, biomedical waste, organic waste, plastic waste, paper waste, and other inorganic solid waste) for building occupants to ensure segregation of waste at the source.
- (x) Ensure that dedicated segregated and hygienic storage spaces are provided within the project site before treatment/recycling.
- (xi) Provide contractual tie-ups with waste recyclers for safe handling and recycling of all types of inorganic waste generated on site.
- (xii) Ensure that at least 50% of inorganic waste is recovered/diverted (by means of recycling/processing through dedicated recyclers).
- (xiii) Ensure that the organic waste generated on-site [from the building and landscape] is quantified, and adopt strategies to treat 100% organic waste on site to convert it into useable resources (manure, biogas, etc.) such as – dump-pits, organic waste converter or vermicomposting etc.

**c) Project Management, Clearances & Certification**

The Contractor shall obtain approval to the design, drawings and specifications of all components of the building, from any institute of repute to be decided by the employer at its own cost. The Employer shall give clearance for construction on all sketches, drawings, reports and recommendations and other matters and proposals submitted for approval by the Contractor in such reasonable time as not to delay or disrupt the performance of the Contractor's services.

- a. Planning of the project activities including work breakdown structure and their timelines thereof, in MS Projects/ Primavera and submit the same to the authority for progress monitoring throughout the span of the project.
- b. Project Management to ensure completion of Project as per the specified timelines
- c. Obtaining NOC from Development Authority/ Municipality, PHEO, Fire authority, Environmental Clearance from SPCB (if applicable), and any other statutory approval required for the project.

- d. Compliance with Environmental and Energy efficiency norms and obtaining minimum **3-star GRIHA rating**.
- e. Handing over of the facilities after fulfilling all obligations of the Contractor and confirming to Employer's requirement
- f. Taking up the works listed for Defects Liability Period and closing the project.
- g. Submission of Daily Labour Report and Weekly / Monthly Labour Payment Report.
- h. Take all precautionary measures to adhere to Government prescribed norms to prevent spread of Corona virus Covid-19.

## **(2) APPENDIX – I (B): SCOPE OF BUILDING WORK**

### ***a) Scope for Civil Work***

The scope of work for the project is about construction of the building and installation of all services in order to make the fully functional and with a view to provide the intended facilities to the users. Scope of civil work shall comprise, but not limited to the following. Specifications for the construction works have been provided in Section-5.

- a. Construction of the building and installation of all services keeping in view the mandatory requirements of the Employer.
- b. Separate loading and unloading facilities should be provided for vending spaces.
- c. **Overhead tank, underground sump, Firefighting sump and storage tank for rainwater of adequate capacity** to be provided
- d. **Water proofing** of foundation, roof, toilets, underground sump and exposed surfaces to be done under the supervision of expert agencies.
- e. **Anti-termite treatment** shall be done as per specifications.
- f. **Flooring** shall be with granite tiles in all floors as well as staircases etc.
- g. **Storm Water Drains:** Providing and laying precast/ cast in situ RCC storm water drain with perforated removable/fixed covers including necessary culverts etc. complete and as per direction of Engineer.
- h. **Service Trench:** Planning, designing and construction of RCC Service Trench conforming to IS:875, IS:456, IS:1893, IS13920 and other IS Code Provision and standard sound Engineering practice and as approved by Engineer. The Service Trench will be designed to accumulate all the services in the campus. Factory made Fixed/ removable R.C.C. precast cover with minimum thickness 100 mm shall be provided at the top of trench.
- i. **Other Materials:**
  - i. **Glazing of windows:** Glazing shall be minimum 8mm thick toughened glass complying with codal safety provisions and the wind speeds. Other areas shall have glazing with reflective coating.
  - ii. **Staircase railing:** Stainless steel railing.

- iii.Expansion Joint: As per requirement.
- iv.RCC Ceiling Surface: 6 mm Gypsum Plaster on ceiling areas
- v.Plinth Protection: Unpolished granite stone in continuation to external wall finishing over CC plinth protection edge with CC Kerb stone.
- vi.Sunken portion: Toilets shall be done with core cutting arrangement to required depression of 100 mm as decided by the Engineer and the same to be filled with M15 after water proofing treatment.
- vii.Signs and outdoor display structures shall be governed by the relevant provisions of the Orissa Municipal Corporation Act/ Orissa Municipal Act and any other codal provision.
- viii.Debris, rubbish & other waste materials shall be reused at site as directed by Engineer or disposed off / recycled or on pre-defined disposal locations.
- ix.Landscaping: Landscaping has to be planned suitable to the theme and architecture of the building used along with public space creation and design. Vertical landscaping may be planned as per architectural requirement. Internal greenery should also be planned.

### **b) Scope for WS & SI Work**

The scope of WS & SI work (Water Supply & Sanitary Installations) for the project is about providing all fittings and fixtures in order to make it fully functional with regard to supply, storage, distribution of water and collection and treatment of effluent from the toilets and other areas of the building including recycling and reuse of water. Scope of work shall comprise, but not limited to the following. Specifications to be followed for the works have been provided in Section-5, and in addition, manufacturer's specification shall also be adhered to for the brands approved for the project.

- I.W.C. Pan with flushing system: Wall mounted EWC at about 50% locations, and Floor Mounted IWC at the balance locations
- II.Urinals: Stall type urinals shall be used
- III.Wash basin: Under Counter wash basin of suitable size and shape. Wash basin counter shall be finished with 18mm thick granite on top and facia of RCC slab
- IV.Mirror: Full length equal to wash basin counter of 600 mm height mirror
- V.Terrace Tank: RCC Tank of approved dimensions
- VI.Sewerage System:
  - The scope includes planning, designing and construction of providing and laying sewer lines with UPVC Eco flow pipes IS 15328 (SN 8) (as per codal requirements) pipes of spigot and socket ends including Manholes of required size, shape and depth complete and as per direction of Engineer-in-charge. The agency has to plan, design, prepare the drawings for the Sewerage system and get the same approved from Engineer incharge before executing the competent authority. The sewerage lines of individual buildings shall be considered in buildings upto and including first manhole.
  - Waste & wastewater from kitchen & dining (if any) shall not be directly discharged in the sewerage system. For garbage, a separate storage bin shall be provided and all codal provisions of

SWD should be followed. For pre-treatment of wastewater Gully Trap, screen chamber, Grit Chamber shall be designed and constructed.

- This item is operated from the first manhole to the Sewage Treatment Plant including construction of gully trap, grit chamber, screen chamber etc, making connection from and to the manholes wherever required, all complete

## **VII. Water Supply Network:**

- The scope includes planning, designing and construction of providing and laying Water supply main, branch and distribution lines including chambers and fittings/specials such as Tees, Bends, collars, Unions, tappers, caps, Sluice Valves, Gate Valves, scour valves, non-return valves, air-relief valves, thrust blocks etc. complete and as per direction of Engineer.
- The **water supply network** should cater to the needs of supplying water from UG sumps (from various locations) to individual buildings.
- All buildings are to be **connected with nearest UG sump** by water supply lines by HDPE so that water supply should be made to the building along with fittings, gun metal gate valves, gun metal non return valves, masonry chambers for valves, including excavation, providing sand around and refilling after laying etc.
- The scope also includes providing and laying **treated water supply** (from STP) main, branch and distribution lines including chambers and fittings/specials such as Tees, Bends, collars, Unions, tappers, caps, Sluice Valves, Gate Valves, scour valves, non-return valves, air-relief valves, thrust blocks etc. complete for use in flush tanks, horticulture purpose and to fill artificial pond created in the campus and as per direction of Engineer.
- Planning, designing and construction of RCC **Under Ground Sumps** of adequate capacity as per norms of NBC, with necessary partitions for domestic & firefighting etc. including preparation of preliminary & detailed working drawings, structural analysis & design, planning, designing & execution of all services including providing and laying UPVC pipes of required diameter up to overhead tank etc. by incorporating stipulated specifications and integrating all services with external development works all complete as per directions of Engineer.
- **Borewell:** Adequate numbers of bore wells for alternate water supply shall be provided.
- **Rainwater harvesting:** A rainwater harvesting plan shall be designed and provided for **storing in a tank for reuse after filtration** in the installed filters in the building through provision of separate water tanks and pipeline to avoid mixing with potable municipal water supply.

### **(c) Scope for Electrical Work**

- All works will be carried out as per provisions but not limited to CPWD Specifications, NBC 2016, IE Rules, IS Codes as amended up to the date of tender. In case for any part of the work specification is not available in the aforesaid mentioned documents then part of the work will be carried out in accordance with sound engineering practice and as per directions of Engineer.

- ii.The Contractor shall be responsible and liable for proper and complete execution of the Electrical work ensuring coordination of Civil, WS& SI and Electrical work. The lump-sum rate quoted by the Contractor shall be applicable for the conditions & specifications and scope all complete.
- iii.In case the Contractor does not have in house facility to do the E&M work, he shall submit Name(s) of the proposed Sub- contractor (for each of the E&M works) within one month of award of work or 15 days before start of work whichever is earlier. The Contractor shall submit MOU between the one who is awarded the work and the associated eligible electrical contractor.
- iv.In event of the concerned E&M agency not performing satisfactorily or failure of associate/sub-contractor to complete the E&M work, the Contractor on the written direction of the Employer, shall remove the Associate/sub-contractor deployed on the work and shall submit name of new associate who fulfills the conditions to execute the leftover work without any loss of time or variation in cost to the Employer in this regard. No change of Electrical Contractor will be allowed without prior approval of the Engineer.
- v.Scope of work covers planning, designing, supply, installation, testing, commissioning and ensuring performance of all Electrical & Mechanical services for external ambience lighting, internal requirement, façade highlighting etc. till end of Defects Liability Period. The work shall be executed as per scope & specifications of E & M works given hereafter in respective head / part of the scheme or sub-head. If any services/work required to make the building / scheme habitable & functional, including the statutory compliance, is not specifically mentioned in the scope of services, the same is deemed to be included within the scope of this tender and nothing extra shall be paid on this account.
- vi.The scope of work covers the preparation of layout plans, drawings for E & M schemes, inventories of fittings, fixtures, equipment and approval of the same from the Engineer, before commencement of work. The scope of work shall deem to include, but not limited to, the systems as described below in complete respect with full functionality, compliances to the specifications, drawings.

- **Internal and external Electrical Installations:** Planning, designing, capacity calculations with load details, Complete design details, supply, installation, testing and commissioning of complete Internal and External Electrical Works which includes copper wiring in steel conduit, LED luminaries and lighting controls, fans, modular switches, sockets, DBs, MCBS, RCCBs, tap off boxes, UPS, Wire mesh cable tray for parking area and Floor Raceways for shopping and meditation area, PIR Sensors, Chemical earthing, lightening arrestor, cable TV wiring in steel conduit, networking wiring (CAT6A) in raceway, wall mounted patch panels for networking system, wiring for centralized intercom system, call bell system, street light, compound light and landscape lights, contour & fascia light etc. complete as required.
- **Lifts:** Planning, designing, supplying, installation, testing & commissioning of Passenger and Service Lifts with ARD system shall be as per the provisions of NBC.

- **Sub-Station:-** Planning, designing, capacity calculations with load details, Complete design details, supply, installation, testing and commissioning of complete Substation Works & equipment which includes HT Panels, Dry type transformers (CSS) including standby, LT Panel, HT cables, APFC (Automatic Power Factor Correction) Panels, Distribution Panels, Active Harmonic filters, TVSS (Transient Voltage Suppression System), SPD (Surge Protection Device), Fire Emergency Panels, other related works like LT cabling from sub-station to buildings, sandwich type bus- trunking, chemical earthing complete as required. Statutory clearances wherever required will have to be taken by the firm.
- **DG Set :** Planning, designing, capacity calculations with load details, Complete design details, Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation/ventilation/smoke exhaust as required, chemical Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust stack/ Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required.
- **Fire Fighting:** Planning, designing, supplying, installation, testing & commissioning of Firefighting System, comprising of main pump for wet-riser and sprinkler, Diesel engine pump, Jockey pump for wet-riser and sprinkler, MS pipe, valves, flanges, hydrant, down-comer system, Hose reel, Portable Fire Extinguishers, compartmentalization as and where required, in compliance to IS code/NBC 2016, local body by laws and local fire authority. Statutory clearances wherever required will have to be taken by the firm.
- **Fire Alarm and PA System:** Planning, designing (as per CPWD specification, agreement condition & NBC & IS codes), supplying, installation, testing & commissioning of public address system and Automatic Intelligent Addressable Fire alarm system/ manual Fire alarm system comprising of fire alarm panel, Smoke detector, Heat detectors, Hooters, Manual call points, Response indicators, monitor module, control module, fire survival cables etc. It shall be as per NBC 2016, CPWD specifications and Local bylaws and as per approval of Local Fire Service authorities. The work shall also include planning, designing, preparing drawings and getting the drawings approved from the Engineer and its subsequent execution. Scope of work also includes integration of Automatic Intelligent Addressable Fire alarm system/ manual Fire alarm system provided in the building as per NBC 2016 requirements to the main control room located inside the building. Statutory clearances wherever required will have to be taken by the firm.
- **IP EPBAX System:** - Planning, designing, supply, installation, testing and commissioning of complete of Digital based voice communication system with specified number of PRI lines and IP (as per design and requirements) extensions, complete with IP telephone instruments with operator console facility with CAT 6A cabling (if needed separately) with associated accessories as required.

- **IP based CCTV and Security System:** Planning, designing, supply, installation, testing and commissioning of complete IP based CCTV security system including various types of IP based CCTV motorized VF camera having 50mtr IR, internal SD card 128GB, server based recording, Cat6A cabling & related accessories CCTV with independent ofc backbone, PoE Switch and having storage for 30 days at 25 FPS, multi-screen display system, hardware and Video Management System software support etc. as required to be installed at the entry and exit points, Parking areas, and other common areas as required including CCTV control room, required UG cabling, recording system and monitor/ monitors in the control room (Inside and outside area).
- **UPS System:** Supplying, installation, testing and commissioning of online single phase UPS System with 60 minutes back up including batteries, interconnecting cables, battery racks etc for the required load (to be placed in Multiple units' floor wise) redundant, with unity power factor, for emergency lighting & lift management system.
- **Water Supply System:** Planning, designing, supplying, installation, testing & commissioning of water supply system with submersible pump sets for bore wells as well as horizontal submersible pump sets for sump well. This includes all piping work, with GI pipe, butterfly valves, NRV, Headers, puddles, water level indicators with magnetic sensors and for operation of pumps and monitoring of water level in tanks. All required electrical panel cabling, sensors shall be in the scope of work.
- **STP:** Planning, Designing, supplying, installation, testing & commissioning of STP based on MBBR Technology of minimum capacity as specified complete including Civil Works with collection tank, MBBR tank, Pumps, treated water, Storage tank, Tertiary treatment, Filtration plant with MGF, ACF, softening plant, UV Plant etc., Statutory clearances wherever required will have to be taken by the firm.
- **Emergency light and illuminated Sign Board:** - Planning, Designing and preparation of drawings obtaining approvals from the Employer for emergency light and illuminated sign board, SITC of sign board in each building showing Exit, floor, lift, staircase, electric shaft etc at every building in the campus as per detailed specifications.
- **Solar Power:** Supplying, installation, testing and commissioning of merlin flexible rugged and lightweight On Grid roof top solar photo voltaic power generation system including frames capable of sustaining 300 Kmph wind speed with 25 years performance warranty.

vii.All the drawings should have a checklist stating that it follows IS codes (code name to be specified), NBC 2016, CPWD specifications. Also, the contractor has to provide any data and detail asked by Engineer to finalize and accept the scheme, drawings etc., which shall be provided on the established standard/guidelines/codes etc.

viii.Clearances to be taken by the firm from the Employer before start of work. The above schemes of all the E&M works shall have to meet all the requirements of local bodies/ Fire Services / Electrical Authority/ NBC norms as applicable & also meet the technical specifications of various relevant CPWD specifications for electrical & mechanical services.

- ix.The agency has to make its own arrangements for storage of sundry materials and erection equipments. No separate storage accommodation shall be provided by the Employer. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the client Employer. Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.
- x.All equipment shall have warranty as provided by OEM from the date of taking over/ installation, against unsatisfactory performance and/or break down due to defective design, workmanship or material. The equipment or components, or any part thereof, so found defective during warranty period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer. In case, it is felt by the Employer that undue delay is being caused by the contractor in doing this, the same will be got done by the Employer at the risk and cost of the contractor. The decision of the Engineer in this regard shall be final & binding on the contractor.

### (3) APPENDIX- II: SCHEDULE OF FINISHES

#### GENERAL SPECIFICATIONS FOR RESIDENTIAL BUILDINGS

Sl. no	Description	Applicable Specifications		Remarks
		Type-VI	Type-VII	
1	<b>FOUNDATION</b>	As per structural requirements		The design shall vary as per soil conditions.
2	<b>SUPERSTRUCTURE</b>			
	For multi-storey RCC framed structure	RCC frame & filler walls of Full brick thick masonry in autoclaved aerated cement concrete (ACC) blocks/ burnt clay FPS/ fly ash bricks/ RCC walls with Aluminum formwork.		Any other energy efficient suitable locally available material in consultation with architect and structural engineer.
	Internal Partition	Half brick thick masonry in autoclaved aerated cement concrete (ACC) blocks / burnt clay FPS/ fly ash bricks/ RCC walls with Aluminum formwork.		Any other energy efficient suitable local material in consultation with architect and structural engineer.
	Sunken floor for toilets with four course water proofing treatment	Sunk recess in RCC floor of required size and depth for floor trap and W.C traps.		
3	<b>DOORS AND WINDOWS</b>			
	a) Frames (except of toilet/bath & WC)			
	i) Door	2 <sup>nd</sup> class teak wood framework for external entrance having double rebate for double doors i.e. main door and safety grill stainless steel door with stainless steel wire mesh. For internal doors 2 <sup>nd</sup> class teak wood/ uPVC extruded frame sections with minimum wall thickness of 2 mm in single rebate.		
	ii) Window	UPVC extruded frame sections with minimum wall thickness of 2.0 mm/ powder coated or colour anodized aluminium extruded tubular sections/ engineered wood sections along with the provision of sub frame of suitable material.  12mm MS square bar grill (minimum 2kg/sqft) to be provided at all openings such as windows, balconies, common areas etc.		
	iii) Doors & windows of toilet/ bath/ WC	2 <sup>nd</sup> class teak wood / uPVC extruded frame sections with minimum wall thickness of 2.0 mm/ WRC of density 750 to 1000 kg per cum, compatible to doors shutters		
	iv) Door/ window frames in servant area	Hard wood/ seamless mild steel tubular frame with minimum wall thickness of 2.0 mm.		
	b) Shutters			
	(i) Main door/ external door shutters	Double shutters, one safety grill single/ double leaf door in SS-304L grade frame with mosquito proof stainless steel wire mesh of SS-304 grade (Powder Coated) and stainless-steel fittings and other with 35 mm thick factory-made exterior grade both side decorative veneered type flush door shutter with melamine polish (including necessary lipping)		
	(ii) Domestic help's area	Double shutters, one mild steel grill door with mosquito proof stainless steel wiremesh of SS-304 grade, painted and		

		other 35 mm thick factory-made flush door shutter both side commercial veneered and painted. (Including necessary lipping)		
	Bath, WC & toilet door	25 to 30 mm thick, WPC of density 650 kg per cum paneled / 30 to 35 mm thick flush doors.		
	Other doors	35 mm thick, Chemically Treated Hard wood styles & rails with paneling of 12mm thick teak Ply/ teak wood/ 5mm thick toughened glass glazing or 35 mm thick factory-made exterior grade both side decorative veneered type flush door shutter with melamine polish.		
	c) <b>Window shutters</b> All windows shutters	Double shutter one glazed shutters with frames of uPVC extruded profiles of minimum wall thickness of 2 mm/ 30mm thick 2 <sup>nd</sup> class teak wood with glazing of float/ toughened glass and without reflective coatings of double-glazed unit as per design & requirement and other with stainless steel SS-304 grade wire- mesh in place of glazing		
	Domestic help's area (doors & windows)	Double shutters, one mild steel grill door with mosquito proof stainless steel wire mesh of SS-304 grade, painted and other 35 mm thick factory-made flush door shutter both side commercial veneered and painted. (Including necessary lipping)	Shutters in all respective rooms shall be as per the finishes in those rooms	
	d) <b>Hardware &amp; Fittings</b> Main units	Powder coated or colour anodized aluminum/ stainless steel fittings (SS-304)	Stainless steel fittings SS-304 grade or chromium/ nickel/ chromium & nickel-plated brass fittings	Rubberized at the bottom flashing at external doors shall be provided for protection from insects and rainwater etc.
4	<b>FLOORING, SKIRTING &amp; DADO</b>			
	a) Flooring Living drawing room, dining & family lounge	18 mm thick pre- polished granite stone of approved shade/ vitrified tile (in all designs and shade) flooring of size not less than 600 X 600 mm, living / drawing room can also have scratch resistant engineered wood or laminated wooden flooring.		
	Office area	Not admissible	Scratch resistant engineered wood or laminated wooden flooring.	
	Bedrooms, Visitors Room	10mm thick Vitrified tiles in all designs and shades (with water absorption less than 0.08%) of size not less than 600 X 600 mm/ scratch resistant ceramic tiles with joints finished with matching grout engineered wood or laminated wooden flooring in one bedroom		
	Kitchen	10 mm thick Anti-skid Vitrified tiles of size not less than 600 X 600 mm with water absorption less than 0.08% laid with joint finished with matching grout.		
	Kitchen counter	18mm thick pre- polished granite with nosing as per design.		
	Common circulation area	18mm thick pre- polished granite of size not less than 600 X 600 mm.		
	Domestic help's area (flooring)	Scratch resistant 10mm thick vitrified tiles of size not less than 600 X 600 mm with joint finished with matching grout.		
	Common circulation area in servant quarters	18mm thick granite stone		
	Main Staircase	18mm thick flamed finish granite in single length of treads & risers	Nosing design in treads shall be as per architectural design	
	Fire escape staircase			
	Toilets / bathroom / WC	10 mm thick Anti-skid Vitrified/ ceramic tiles (with water absorption less than 0.08% not less than 300 X 300 mm or 18 mm thick gang- saw cut pre- polish granite stone.		

	Gymnasium	Laminated Rubber tile flooring over 40mm thick AS Flooring of proportion 1 cement:1.5 fine aggregate:3Coarse aggregate.	
	Skirting in rooms and other areas	100 to 150 mm high skirting matching the floor material.	
	b) <b>Dado</b> Kitchen dado	6mm thick Ceramic glazed/ vitrified tiles of size not less than 300 X 450 mm as per design from floor up to full height	
	Toilets / bathroom / WC dado	6mm thick Ceramic glazed / vitrified tiles of size not less than 300 X 450 mm up to full height with height with decorative bands at certain intervals.	
<b>5</b>	<b>RAILINGS</b>		
	(a) Railings in Balcony	Clear 1.00 m high stainless-steel railing made out of tubular balustrades with horizontal tubular SS tubes as rails and hand rails on top (as approved design); all stainless steel tubular members to be on SS- 316 L	
	<b>Notes:</b> Handrail of the balcony railings in multi storey flats may be so designed that clothes drying lines in sufficient nos. are provided along with.		
	(b) Parapet on terrace	200 / 230 mm thick masonry in autoclaved aerated cement concrete (ACC) blocks / RCC/ burnt clay FPS bricks duly plastered on both sides and top upto 1.0-meter clear height	
	(c) Handrail in staircase	Clear 1.00 m high stainless-steel railing made out of tubular balustrades with horizontal tubular SS tubes as rails and hand rails on top (as approved design); all stainless steel tubular members to be on SS- 316 L grade	
<b>6</b>	<b>FINISHES</b>		
	Internal finishes	Premium acrylic emulsion paint with low VOC of approved shade in roller finish over 6 mm thick POP wall punning Synthetic enamel paint on all woodwork and steel works.	
	External finishes	Quartz reinforced texture acrylic paint finish of approved shed / premium acrylic smooth waterproof exterior finish/ washed mosaic plaster in premium cement- based putty / exposed brick / stonework/GRC/ designer cement concrete tile cladding / ACP cladding in combination with structural glazing.	In case of large campus etc., the residences shall match the overall colour &texture finishes within the campus.

**SCALE OF AMENITIES (CIVIL) FOR GENERAL POOL RESIDENTIAL ACCOMMODATION  
(GPRA)**

Item No.	Item	Type VI	Type VII	Domestic help's Qtrs.
1	Kitchen cabinets			
i)	Cooking Platform			Yes
ii)	Stainless steel AISI 304(18/8) kitchen sink as per IS 13983 with drain board.			Yes
iii)	Built in cupboard made up of box and shelves with both side balancing laminated and shutters with one side decorative and another side balancing laminated 18 mm thick high moisture resistant HDF board or Same shelves with box and shutter of 18 mm thick EPC boards, with stainless steel hardware's, as per architectural design and specifications.			
iv)	25 mm thick and not more than 400 mm wide both side balancing laminated high moisture resistant HDF board shelves, in tiers up to 2100 mm height in niche and covered with 18 mm height in niche and covered with 18 mm thick one side decorative and other side balancing laminated high density high moisture resistant HDF board, with stainless steel hardware's as per architectural design and specifications.			Yes
v)	Factory made modular kitchen having sink with double drain board, cooking platform and electric chimney of reputed company.	Yes	Yes	
2	Wardrobes			
	Built in cupboard of minimum depth 650 mm made up of 18 mm thick one side decorative and other side balancing laminated high moisture resistant HDF board in shelves, with stainless steel hardware's as per architectural design and specifications			
	Factory made wardrobe carcasses, shelves, drawers etc of minimum depth 650 mm manufacture in 19 mm thick BWP plywood painted with synthetic enamel paint over primer on all the inner surfaces, and sides top and shutter faces finished with post formed lamination using 1mm thick mica of approved make and using stainless steel hardware as per the approved sample.	One in each bedroom, living room, dining area and visitors room up to ceiling height		One upto ceiling height
3	Magic eye in front entry door.		One	One
4	Curtain rod with required accessories.	Drapery rods on all windows and doors in all rooms except kitchen, toilets / baths/ WC's	On all windows and doors in all rooms except kitchen, toilets/ baths/ WC's	
5	Set of pegs.	In all toilets / baths / WC's & wardrobes		
6	18 mm thick projected window sill lining, window jambs.		Granite stone	

**SCALE OF AMENITIES FOR SANITARY AND WATER SUPPLY FITTING FOR GENERAL POOL  
RESIDENTIAL ACCOMMODATION (GPRA)**

Sl. No.	Item	Type- VI	Type- VII	Domestic help's Qtrs.
1	EWC/WC with trap (EWC with seat rim and cover) and low level dual flushing cistern.	One in each toilet		
2	Water jet/health faucet with European WC	Water jet/health faucet with each EWC	Not applicable	
3	Wash basin with CP brass mixture type for hot & cold water with single level with quarter turns ceramic cartridges.	One in each toilet & one of dining area as per design	One in each toilet	
4	Tap (Kitchen, toilet, bath & WC) CP brass/PTMT bid cock provided with quarter turns ceramic cartridges.	Three in one kitchen, one in each toilet for WC		
5	Shower with CP brass mixture type tap for hot & cold water with single lever, ceramic cartridges quarter turn.	One in each toilet / bath		
6	CP brass towel rail and towel ring	One towel ring with each wash basin and towel rail in each bath.		
7	Mirror with frame and glass shelf having stainless steel frame / guard bar / brackets	600 X 450 mm with each wash basin as per design with each wash basin	600 X 450 mm with each wash basin	
8	CP brass/ceramic toilet paper holder with European WC	Yes		
9	Soap rack/ niche as per architectural design and specification.	One with each wash basin and in each bath		
10	Plumbing for water purifier and geyser.	Yes, for both in kitchen and for geyser in each bath		
11	Storage tank of capacity as per NBC 2016 provision of separate tank for WC & drinking water.	Separate tanks for kitchen and toilets for dual flushing system as per requirements with provision of online filter.	Separate tanks for kitchen and toilets for dual flushing system as per requirements with provision of online filter..	
12	Water meter of appropriate bore size as per approval of local municipal body.	Yes, inside the flat at direct supply point to dwelling unit or at first intel point if supply is through bulk storage at terrace separately for each piping system.	Yes, inside the flat at direct supply point to dwelling unit or at first intel point if supply is through bulk storage at terrace separately for each piping system.	

**SCALE OF AMENITIES FOR ELECTRICAL INSTALLATION IN GENERAL POOL RESIDENTIAL  
ACCOMMODATION**

Sl. No.	Description	Type- VI (For each dwelling unit)	Type- VII (For each dwelling unit)	Domestic help's Qtrs.	Gymnasium, Security room etc. for each block (Type- VI & Type VII Quarters)
1	<b>Power points</b> (16 amp 6 pins)	3 in drawing room 3 in dining room 2 in each Bedroom 4 in kitchen 1 in utility area	2 in office 6 in visitors room 3 in dining room 3 in family lounge 2 in each Bedroom 4 in kitchen 1 in utility area	Total 2	Total 8
		<b>Total 19</b>	<b>Total 27</b>		
2	<b>Light Plug points</b> (6 amp)	2 in each bedroom 1 in kitchen 1 in store 1 in each balcony 6 in living room	2 in office 2 in each bedroom 6 in visitors room 3 in dining room 3 in family lounge 1 in kitchen 1 in store 1 in each balcony	Total 2	Total 20
		<b>Total 20</b>	<b>Total 29</b>		
3	<b>Bracket lights</b> (with normal fittings excluding lamp/bulb)	1 in store 1 in each toilet 1 in utility	1 in store 1 in each toilet 1 in utility	Total 3	Total 6
		<b>Total 12</b>	<b>Total 12</b>		
4	<b>Ceiling fans</b>	2 in drawing room 2 in dining room 2 in each bedroom 1 in each balcony	4 in visitors room 2 in dining room 2 in family lounge 2 in each bedroom 1 in each balcony	Total 1	Total 20
		<b>Total 16</b>	<b>Total 21</b>		
5	<b>Call bell points</b>	3(one with image display system)	4(one with image display system)		
6	<b>Exhaust Fans</b>	1 each in kitchen & toilets		Total 2	Total 10
7	<b>AC Points</b> (with MCB connected socket outlet with wiring)	1 each room except kitchen & toilets			Total 10
8	<b>Geyser point</b> (with MCB connected socket outlet with wiring)	1 in kitchen 1 in each toilet		1 in toilet	
9	<b>EDB/MCB point</b> (single phase)			1	
10	<b>EDB/MCB</b> (3 phase)	1	1		Total 1
11	<b>Cable TV</b>	1 in drawing room 1 in dining room 1 in each Bedroom	1 in office 1 in visitors room 1 in dining room 1 in family lounge 1 in each Bedroom	1	
12	<b>Telephone point</b> (As per the approval of competent authority)	1 in drawing room 1 in dining room 1 in each Bedroom	1 in office 1 in visitors room 1 in dining room 1 in family lounge 1 in each Bedroom	1	

13	<b>Decorative light fittings</b>	3 in drawing room 3 in dining room 2 in each Bedroom	3 in office 3 in visitors room 3 in dining room		
	<b>For LED bulbs</b>	2 in kitchen	3 in family lounge 2 in each Bedroom 2 in kitchen		
	<b>Total 16</b>		<b>Total 22</b>		
14	<b>Led tube light fittings</b>	1 in drawing room 1 in dining room 1 in kitchen 1 in each Bedroom	1 in Office 2 in visitors room 1 in dining room 1 in family lounge 1 in each Bedroom		Total 20
	<b>Total 7</b>		<b>Total 9</b>		
15	<b>Modular switches</b>	<b>Yes</b>	<b>Yes</b>		<b>Yes</b>
16	<b>VRF AC System</b>	<b>In Bedrooms</b>	<b>In Bedrooms and Office</b>		

**Note:** All the common areas e.g. lifts & staircase, lobbies, connecting corridors etc. shall have lightning arrangement along with LED light fixtures as per actual design. Concealed wiring shall be used in all electrical works. LED light fixtures shall only be used as per directives of competent authority.

#### GENERAL SPECIFICATIONS FOR COMMUNITY HALL

Item no.	Description	Specifications
<b>1.0 FOUNDATION</b>		
1.1	For RCC framed structure	As per structural design based on soil investigation. (Primarily with RCC footings, columns, raft etc.)
<b>2.0 SUPER STRUCTURE</b>		
2.1	For RCC framed structure	R.C.C. Framed construction having filler walls with full brick thick fly ash bricks / aerated cement concrete (ACC) blocks / autoclaved aerated cement (AAC) blocks.
2.2	Internal Partitions	ACC/ light weight AAC blocks/ gypsum block/ non asbestos double skin cement boards/ fly ash bricks
2.3	Sunken floor in lavatory blocks for floor traps / W.C with four course waterproofing treatment	Sunk recess in RCC floor of required size and depth may be provided for floor traps, W.C traps
<b>3.0 DOORS &amp; WINDOWS</b>		
3.1	Frames	
3.1.1	Doors frames	Door frames of 2 <sup>nd</sup> class Indian teakwood or equivalent. Anodized / power coated/ polyester powder coated aluminum extruded tubular sections/ extruded hollow mild steel pipes (Minimum 2 mm thickness)/ uPVC extruded sections / WPC of density between 750 to 1000 kg per cum
3.1.2	Window frame	uPVC extruded sections of window frame / Aluminum extruded tubular sections / WPC of density between 750 to 1000 kg per cum.
3.2	Door & window shutter	
3.2.1	Door Shutter	Paneled type in 2 <sup>nd</sup> class teak wood or flush door with teak veneered ply / commercial ply or anodized/powder coated / polyester powder coated aluminum shutters with toughened glass glazing / paneling wherever required as per CPWD specifications/ as per design & drawing.
3.2.2	Frame and shutters in wet area	PVC/FRP/WPC door frames & shutters in wet areas.

3.3	Window shutter	Factory made colour anodized/ powder coated / polyester powder coated Z- section aluminum shutters/ standard uPVC/WPC section for windows glazed with glazing of float/ toughened glass and with/ without reflective coating/ high performance coatings or double-glazed unit as per per design and requirement.
3.4	Fittings	Anodized aluminum / stainless steel (SS-304) or equivalent.
3.5	Fire check door	As per fire safety specifications.
<b>4.0</b>	<b>FLOORING</b>	
4.1	Main entrance hall	18mm thick pre-Polished granite flooring.
4.2	Corridors	8mm thick Matt finished vitrified tiles / granite flooring / combination of marble and granite.
4.3	Rooms	8mm thick Granite tiles/ vitrified tiles
4.4	Lavatory Blocks	18mm thick Granite flooring.
4.5	Flooring in basement	Vacuum dewatered concrete.
4.6	Rest of the area	8mm thick Vitrified ceramic floor tiles
<b>5.0</b>	<b>STAIRCASE</b>	
5.1	Internal staircase	18 mm thick Single piece flamed granite or marble flooring in treads & risers with dado of matching permanent finish specifications.
5.2	Fire escape staircase	18 mm thick Single piece flamed granite or marble flooring in treads & risers with dado of matching permanent finish specifications.
<b>6.0</b>	<b>RAILING</b>	Stainless steel balustrades with 12 mm thick tough end glass railing or SS tubular horizontal guard rails/ hand rails in SS-304 grade.
<b>7.0</b>	<b>TOILETS</b>	Granite flooring / glazed tiles of size not less than 300 X450 mm / 400 X 600 mm in dado up to ceiling height, granite counters, rimless counter sunk basins / stainless steel sink, mirrors with moulded PVC frame, FRP/PVC doors with frames.
<b>8.0</b>	<b>ROOFING</b>	
8.1	Roof treatment	Water proofing treatment as per CPWD specification (using sika/ fosroc/ Zydex / pidilite compounds)
8.2	False ceiling	Calcium silicate false ceiling in community hall
<b>9.0</b>	<b>FINISHING</b>	
9.1	<b>External</b>	Dry stone cladding / washed stone grit plaster / waterproof weather coat paints / structural glazing / ACP cladding conforming to energy conservation building code.
9.2	<b>Internal</b>	
9.2.1		Cement plaster in wet areas.
9.2.2		Dry acrylic paint / distemper in service area and basement.
9.2.3		Acrylic emulsion paint/ textured paint (low V.O.C) over POP
9.2.4		Wall paneling as per approved architectural design up to sill level/ 1200 mm height or ceiling height
9.3	Painting	Doors & windows – Painting / polishing on woodwork as per design requirement.
10.0	<b>PROVISION FOR BARRIER FREE BUILDING</b>	Ramps, toilets for physically challenged, chequered tiles, use of braille signages & lifts etc. GRC (glass reinforced concrete) tiles in ramp area.

**SCALE OF AMENITIES FOR ELECTRICAL INSTALLATION IN COMMUNITY HALL**

Sl. No.	Description	Community Hall- 1	Community Hall- 2
1	<b>Light Point</b>		
	<b>1. 40-watt LED tube light</b>	160	170
	<b>2. 12-watt LED mirror light</b>	21	30
	<b>3. 12-watt LED circular light</b>	40	55
	<b>4. Angle Holder</b>	03	03
2	<b>Plug points (6 amp) Separate</b>	76	75
	<b>Plug points (16 amp)</b>	06	06
3	<b>Ceiling fans</b>	88	78
4	<b>Exhaust Fans</b>	19	23
5	<b>AC Points</b> (with MCB connected socket outlet with wiring)	28	30
6	<b>Geyser point</b> (with MCB connected socket outlet with wiring)	7	7
7	<b>8-way three phase neutral board</b>	5	5
8	<b>6/10 A ON Board</b>	40	44

**SCALE OF AMENITIES FOR SANITARY AND WATER SUPPLY FITTING FOR COMMUNITY HALL**

<b>Sl. No.</b>	<b>Item</b>	<b>Type- VI Community Hall</b>	<b>Type- VII Community hall</b>
1	Orissa WC pan (European style) with low level dual flushing PVC cistern	NA	NA
2	European type floor mounted / wall-hung WC with seat, lid and low level dual flushing PVC cistern.	18	19
3	Water jet/health faucet with European WC	18	19
4	Wash basin with CP brass mixture type for hot & cold water with single level with quarter turns ceramic cartridges.	21	25
5	Standing urinals bowl pattern	4	4
6	Tap (Kitchen, toilet, bath & WC) CP brass bib cock provided with quarter turns ceramic cartridges.	38	42
7	Shower with CP brass diverter/ mixture single liver type for hot & cold water with ceramic cartridges.	NA	NA
8	Towel rail and towel ring CP brass	21	25
9	Mirror with frame and glass shelf having stainless steel frame/ guard bar/ brackets	21	25
10	CP brass/ceramic toilet paper holder.	20	21
11	Soap rack / niche as per architectural design and specification.	24	25
12	Plumbing for water purifier and geyser.	7	7
13	Storage tank of capacity as per NBC 2016 provision of separate tank for WC & drinking water.	2	2
14	Water meter of appropriate bore size as per approval of the local urban body / WATCO	1	1
15	Kitchen Sink (stainless steel)	2	2
16	Urinal Partition	4	4
17	Stop cock	42	36
18	Sterilization Sink (For Doctor's Chamber)	3	0

**(4). APPENDIX-III: LIST OF ACCEPTABLE MAKES**

<b>SL NO</b>	<b>DESCRIPTION OF ITEM/ LOCATION</b>		<b>PROVISION</b>	<b>MAKE</b>
1	<b><u>CIVIL WORKS</u></b>			
A	<b><u>Structural</u></b>			
i	Cement	OPC/ PPC/ PSC	ULTRATECH/ DALMIA/ ACC/ RAMCO/ NU VISTA	
ii	Chemical Admixtures		SIKA / FOSROC/ Pidilite/ Zydex	
iii	Internal/ External Walls with brickwork/ AAC Blocks	AAC Block/ Fly ash Brickwork in Adhesive/ cement mortar (1:6) & (1:4)	Make to be approved by the Employer	
iv	Reinforcement Steel	CRS	TATA TISCON/ SAIL/ JINDAL/ SHYAM/ RINL	
B	<b><u>Flooring &amp; Dado</u></b>			
i	Lobby, Passage and Common Areas	Polished granite slabs of 20 mm and above thickness of approved shade		
ii	Toilets	Anti-skid full body vitrified tiles of 600 mm x 600 mm minimum size to be fixed with spacers of 6 mm width and grouted with epoxy of approved shade	Johnson/ Kajaria/ Somany/ RAK	
iii	Community Hall/ Offices and all other spaces	Full body vitrified tiles of 800 mm x 800 mm minimum size to be fixed with spacers of 6 mm width and grouted with epoxy of approved shade	Johnson/ Kajaria/ Somany/ RAK	
iv	Staircase	Unpolished single piece Granite stones of thickness 20 mm and above and of approved shade for riser and tread with double nosing and anti-slip safety grooves on tread.		
v	Footpaths/ Driveways open to sky	Paver Block	Standard size and specification	
vi	Open Parking	80 mm Paver Block	As per load / MSA calculations	
C	<b><u>Inside finishing</u></b>			
i	Painting	As per architectural design	Asian / Berger/ ICI/Nerolac	
ii.	BWP Ply & Laminates	As per architectural design	Green Ply/ Merino Ply/ Century Ply/ Archid Ply	
D	<b><u>Outside Finish</u></b>			
i	External Plastered Surface	Acrylic Exterior Emulsion Paint	Asian/Berger/ /ICI/Nerolac	
ii	Inside Duct	Acrylic Exterior Emulsion Paint	Asian/Berger/ ICI/Nerolac	
iii	Putty Punning	Exposed Plastered Surface	Birla/JK	
iv	Chemical Paint/Silicon Paint		SIKA/Asian/Berger/ICI/Nerolac	

SL NO	DESCRIPTION OF ITEM/ LOCATION		PROVISION	MAKE
E	<b><u>Door &amp; Window</u></b>			
	i	Main Entrance	Wooden Panel Doors.	
	ii	Other than Entrance, Toilets	Wooden Panel door/UPVC Door	Tata Pravesh/ JSW Avante/ Fenesta UPVC
	iii	Windows/Ventilators	UPVC Casement Window (Sliding/ openable)	Fenesta UPVC/Prominance/ Adopen/ Aparna Venstar
	iv	Glass	Door / Window / Glazing	MODIFLOAT/ASAHI/SAINT GOBAIN/ AGC
	v	Aluminum Section	Both Anodised & Powder Coated	Jindal/ Indal
F	<b><u>Water Proofing &amp; Anti termite treatment</u></b>			
	i	Terrace, sunken slab, toilet, expansion joint, water tank.	Chemical Waterproofing of different courses as per the design of water proofing expert agency.	SIKA/Pidilite/Zydex / Fosroc/ Asian Paint/ Myk
G	<b><u>SS Work</u></b>			
	i	Staircase Railing	AISI 316 L SS Railing	Jindal
	ii	Window Openings (if any)	AISI 316 L SS Grill	Jindal
	iii	Compound Wall Gate	AISI 316 L SS Gate	Jindal
H	<b><u>WS &amp; SI WORKS</u></b>			
	i	Internal Water Supply	CPVC Pipes	Supreme/Astral/Ajaya/Ashribad
	ii	External Water Supply	CPVC/ UPVC Pipes	Supreme/Astral/Ajaya/Ashribad/ Hind
	iii	Internal Sewerage	UPVC SWR Pipe	Supreme/Hind/Ajay/Astral
	iv	External Sewerage	NP2/3	Supreme/Hind/Ajay/Astral
	v	Rainwater Pipe	UPVC Pipe	Oriplast/ Supreme/Ajaya/ Ashribad
	vi	Pumps	Horizontal/Vertical Pumps	Kirlosker/ Crompton Greaves/ Texmo/ Suguna
	vii	Porcelain Fittings	a. Wall mounted EWC with concealed cistern & flush plate b. Floor mounted IWC with flushing arrangement for Women's Urinals c. Stall Type Men's Urinal with sensor d. Wall mounted wash basin with half pedestal	Hindware (Queo)/Jaquar (Artize)/ Duravit/ Equivalent series in Kohler/ Roca/ Grohe should be of export quality.
	viii	CP Fittings	Bib Cock/ Stop Cock/ Angle Valve/ Push type Pillar Cock / Flush plate	Hindware (Queo)/Jaquar (Artize)/ Duravit/ Equivalent series in Kohler/ Roca/ Grohe
	ix	CP Accessories	Towel Rail (600 mm)/Soap Tray/Paper Holder/ Robe Hook/ Bottle Trap etc	Hindware (Queo)/Jaquar (Artize)/ Duravit/ Equivalent series in Kohler/ Roca/ Grohe of export quality.

SL NO	DESCRIPTION OF ITEM/ LOCATION		PROVISION	MAKE
	x	Overhead Tank	RCC/ Triple layer polyethylene/FRP	
	xi	Water supply line valves	Gate Valve/Check Valve/Ball Valve etc	Leader/ Kirti/ Anupama
	xii	STP		To be designed and constructed at site.
I	<b><u>FIRE FIGHTING</u></b>			
	i	HOSE REEL	AS PER IS 636 TYPE A	
	ii	SS NOZZLE	AS PER IS 903 & 2871	
	iii	MS PIPE, FITTINGS & FABRICATION	AS PER IS 1239 & AS PER IS 2825	JINDAL/TATA
	iv	GM valves/NRV'S	AS PER IS 5131	Danfoss / Zoloto
	v	Hydrant valves	AS PER IS 5309	NEW AGE/EVERSAFE
	vi	Fire alarm		BOSCH/ HONEYWELL/ EDWARD
	vii	Panel		BOSCH/ HONEYWELL/ EDWARD
	viii	Fire hose		NEW AGE/EVERSAFE
	ix	Sprinkler		NEW AGE/EVERSAFE
	x	Smoke detector		BOSCH/HONEYWELL/EDWARD
J	<b><u>ELECTRICAL WORKS</u></b>			
	i	Point wiring	Recessed wiring	
	ii	PVC Conduit Pipe	ISI Rigid PVC	AKG/ Polycab/ Anchor/ Panasonic/ Finolex
	iii	M.S. conduit pipe	ISI Marked	BEC/ Supreme/ Kalinga
	iv	Wire	FRLS	Finolex/ Havells/ Anchor/ L&T
	v	Switches & Socket.	Modular type	Legrand- Myrius, MK- Blenze, Schenider- Zencelo, Anchor- Panasonic-Vision
	vi	Bakelite sheets		Hylam/ Formica
	vii	MCCB, MCB, RCCB, RCBO	ISI Marked	Legrand/ Havells/ L&T/ ABB/ Hegar
	viii	BDB	Company make Metalic Double door	Legrand/ Havells/ L&T/ ABB/ Hegar
	ix	LT Distribution Board (Fabricated)	Anodised & Powder Coated.	Hensel/ ESS/ VeeESS/ Technocrat/ East Coast
	x	Instrument viz voltmeter etc	ISI Marked	AE/ IMP/ Meco
	xi	Switch gears viz isolator switches, SFU, starter, change switch, HRC fuse holder etc	ISI Marked	Legrand/ Siemens/ L&T/ Havells/ ABB/ Anchor/ Panasonic
	xii	Selector switch	ISI Marked	Kaycee/ Saltzer

<b>SL NO</b>	<b>DESCRIPTION OF ITEM/ LOCATION</b>	<b>PROVISION</b>	<b>MAKE</b>
xiii	Indicating Lamp	LED Type	BINAY/ SIEMENS/ L&T/ ABB
xiv	Energy meters	Govt. Approved	GEC/ Secure/ L&T/ HPL/ Panasonic
xv	CTs & PTs	ISI Marked	AE/ Kappa/ Eastern Switchgear
xvi	Kitkat Extension type	ISI Marked	Anchor/ Havells/ BPC/ ABB/ Anchor/ Panasonic
xvii	Metal clad plug socket	ISI Marked	Legrand/ Havells/ L&T/ ABB/ Anchor/ Panasonic
xviii	PVC insulated cables & Armoured cable	ISI Marked	NICCO/ Polycab/ Havells/ Panasonic
xix	Cable lugs		Dowells/ Ismal/ Clipon
xx	Cable jointing kits		M Seal
xxi	Fitting & Fixture	LED Type	Philips/ Havells/ Wipro/ Bajaj/ Panasonic/ Siemens/ Eveready
xxii	Ceiling Fans & Exhaust Fans	5star rated	Crompton/ Bajaj/ Havells/ Khaitan/ Usha/ Orient/ Panasonic
xxiii	Adhesive & Insulating Tapes		Steelgrip
xxiv	Electric Motor	Star rated	CROMPTON/ BHARAT BIJLEE/ KIRLOSKAR
xxv	Transformer	CESU Approved, Copper wound, Star rated	Alfa/ BEE/ Hitech Power/ Power Link
xxvi	Lightening Arrester		ABB/ OBLUM/ OBO/ERIC
xxvii	Earthing	Chemical Earthing	ABB/ OBO/ ERICO
xxviii	CCTV	Surveillance System	Axis/ Panasonic/ PELCO/Matrix/Cisco/Bosch
xxix	Cat 6A cable, OFC, structured cabling accessories and RACKS, Switch, Firewall, Wireless	Data and Voice Communication system	Legrand/Panduit/ Siemon/Cisco/Juniper/Valrack.
xxx	PA System	Public address system	BOSCH/ ELECTROVOICE/ MEYER/ JBL/ SAMSUNG/ SOUND/ GRANSTREAM/ BOSCH/ HARMAN/ BOSE
xxxi	AV System	Digital Sound systems (Amplifier, Mixer, Microphones, Speakers, Displays, Control Panels)	Main System: Samsung/Bose/ JBL/Harman Display: LG/ Samsung/ Panasonic

<b>SL NO</b>	<b>DESCRIPTION OF ITEM/ LOCATION</b>		<b>PROVISION</b>	<b>MAKE</b>
	xxxii	Solar Panel		
	xxxiii	DG Set		
	xxxiv	IBMS (Integrated Building Management System)		
	xxxv	UPS	Single phase uninterrupted power back-up systems	Emersion/Delta/APC
	xxxvi	HT Panel		
	xxxvii	LT Panel		
	xxxviii	Fire pump		
<b>K</b>	<b>LIFT</b>			
	i	Passenger Lift/ Service Lift/ Bed lift		
				Thysen Krup/ Mitsubishi/ Schindler/ OTIS/ KONE

**SECTION 9****PAYMENT SCHEDULE****CONTRACT PRICE: INR \_\_\_\_\_**

**Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and adjacent G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis**

Out of the agreement amount, the Design and Reporting cost shall be 2.4%, construction cost 95% and Acceptance stage cost 2.6%. The client shall affect payments to Bidder in accordance with the following schedule.

Sl No	Name of Item	Payment as % of Agreement Cost
<b>A. Type - VI Quarters (195 Dwelling units)</b>		
1.	<b>Design Stage</b>	
i)	On approval of Inception Report, detail survey and draft architectural drawing & QMP	0.25
ii)	On approval of Site development plan and architectural drawing	0.25
iii)	On approval of MEP	0.25
iv)	On approval of final Architectural drawing showing electrical and sanitary layout plan and detail structural design and interior design/decoration	0.25
	<b>Total</b>	<b>1.00</b>
2.	<b>Construction Stage</b>	
i)	<b>On Completion of Structural work</b>	
	Basement (3.6m Height), Plinth(0.75m height from AGL), All Floors (3.3m Height)	18.83
	<b>Total</b>	<b>18.83</b>
ii)	<b>On completion of finishing work</b>	
	Basement (3.6m Height), Plinth(0.75m height from AGL), All Floors (3.3m Height)	16.00
	<b>Total</b>	<b>16.00</b>
3.	<b>Water Supply &amp; Sanitary Installation Services.</b>	
i)	Internal and External Water supply	3.56
ii)	S.T.P	0.10
iii)	O.H. Water tank	0.05
iv)	U/G sump	0.10

Sl No	Name of Item	Payment as % of Agreement Cost
	<b>Total</b>	<b>3.81</b>
<b>4.</b>	<b><u>Electrical Services</u></b>	
i)	Internal electric installations in all floors	4.40
ii)	External electric installation	1.20
iii)	Supplying, installation, testing and commissioning of Grid interactive roof top solar photo voltaic power generation system including space frame	0.35
iv)	CCTV (Basement and common areas)	0.10
v)	WIFI	0.08
vi)	Lightning Conductor	0.08
vii)	Power wiring and installation in all dwelling units in all floors.	1.30
viii)	Centralized intercom system	0.30
ix)	Passenger Elevators	0.65
x)	Fire prevention and firefighting arrangement as Fire regulation 2017/ NBC 2016	1.70
xi)	33kV/0.433kV or 11kV/0.433 kV substation ((Minimum 3000 KVA)	0.50
xii)	Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation/ ventilation /smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required. (Minimum 1000 KVA)	0.20
xiii)	Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc. (Minimum 150 KVA)	0.05
xiv)	Supplying, installation, testing and commissioning of VRF Air conditioning System (For each dwelling unit, 1 no. 10 HP capacity outdoor unit with matching indoor units of 2 HP to 3 HP capacity in bedrooms and office room. (Minimum 1950 HP)	2.00
	<b>Total</b>	<b>12.91</b>
<b>5.</b>	<b><u>ACCEPTANCE STAGE</u></b>	
i)	Final approval from competent authority viz. development authority and GRIHA, testing, commissioning with approval from authority like fire officer and completion of all items as per approval.	0.50
ii)	On submission of As-Built drawings and other documents as mentioned in Contract Data	0.50
	<b>Total</b>	<b>1.00</b>
	<b>Type VI Total</b>	<b>53.55</b>

<b>Sl No</b>	<b>Name of Item</b>	<b>Payment as % of Agreement Cost</b>
<b><u>B. Type - VII Quarters (105 Dwelling units)</u></b>		
<b>1.</b>	<b><u>Design Stage</u></b>	
i)	On approval of Inception Report, detail survey and draft architectural drawing & QMP	0.25
ii)	On approval of Site development plan and architectural drawing	0.25
iii)	On approval of MEP	0.25
iv)	On approval of final Architectural drawing showing electrical and sanitary layout plan and detail structural design and interior design/decoration	0.25
		<b>1.00</b>
<b>2.</b>	<b><u>Construction Stage</u></b>	
i)	<b>On Completion of Structural work</b>	
	Basement (3.6m Height), Plinth(0.75m height from AGL), All Floors (3.3m Height)	14.00
		<b>Total</b> <b>14.00</b>
ii)	<b>On completion of finishing work</b>	
	Basement (3.6m Height), Plinth(0.75m height from AGL), All Floors (3.3m Height)	11.50
		<b>Total</b> <b>11.50</b>
<b>3.</b>	<b><u>Water Supply &amp; Sanitary Installation Services.</u></b>	
i)	Internal and External Water supply	2.50
ii)	S.T.P	0.08
iii)	O.H. Water tank	0.04
iv)	U/G sump	0.08
		<b>Total</b> <b>2.70</b>
<b>4.</b>	<b><u>Electrical Services</u></b>	
i)	Internal electric installations all floors	3.10
ii)	External electric installation	0.90
iii)	Supplying, installation, testing and commissioning of Grid interactive roof top solar photo voltaic power generation system including space frame	0.30
iv)	CCTV	0.10
v)	WIFI	0.05
vi)	Lightning Conductor	0.05
vii)	Power wiring and installation in all dwelling units in all floors.	1.00
viii)	Centralized intercom system	0.25
ix)	Passenger Elevators	0.40
x)	Fire prevention and firefighting arrangement as Fire regulation 2017/ NBC 2016	1.13
xi)	33kV/0.433kV or 11kV/0.433 kV substation (Minimum 2500.00 KVA)	0.40

<b>Sl No</b>	<b>Name of Item</b>	<b>Payment as % of Agreement Cost</b>
xii)	Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation/ ventilation/smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required. (Minimum 750.00 KVA)	0.15
xiii)	Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc. (Minimum 100.00 KVA)	0.04
xiv)	Supplying, installation, testing and commissioning of VRF Air conditioning System (For each dwelling unit, 1 no. 10 HP capacity outdoor unit with matching indoor units of 2 HP to 3 HP capacity in bedrooms and office room. (Minimum 1050.00 HP)	1.25
<b>Total</b>		<b>9.12</b>
<b>5.</b>	<b><u>ACCEPTANCE STAGE</u></b>	
i)	Final approval from competent authority viz. development authority and GRIHA, testing, commissioning with approval from authority like fire officer and completion of all items as per approval.	0.50
ii)	On submission of As-Built drawings and other documents as mentioned in Contract Data	0.50
<b>Total</b>		<b>1.00</b>
<b>Type VII Total</b>		<b>39.32</b>

### **C. Community Halls (2 nos.)**

<b>1.</b>	<b><u>Design Stage</u></b>	
i)	On approval of Inception Report, detail survey and draft architectural drawing & QMP	0.10
ii)	On approval of Site development plan and architectural drawing	0.10
iii)	On approval of MEP	0.10
iv)	On approval of final Architectural drawing showing electrical and sanitary layout plan and detail structural design and interior design/decoration	0.10
<b>2.</b>	<b><u>Construction Stage</u></b>	<b>0.40</b>
i)	<b>On Completion of Structural work</b>	
a.	Foundation & Plinth of 0.75m above AGL	0.25
b.	Ground Floor (3.0 m Height)	0.25
c.	First Floor (3.0 m Height)	0.25
d.	Second Floor (3.0 m Height)	0.25
	<b>Total</b>	<b>1.00</b>
ii)	<b>On completion of finishing work</b>	
a.	Foundation & Plinth	0.00
b.	Ground Floor (3.0 m Height)	0.25

<b>Sl No</b>	<b>Name of Item</b>	<b>Payment as % of Agreement Cost</b>
c.	First Floor (3.0 m Height)	0.25
d.	Second Floor (3.0 m Height)	0.25
	<b>Total</b>	
3.	<b><u>Water Supply &amp; Sanitary Installation Services.</u></b>	<b>0.75</b>
i)	Internal and External Water supply with O.H Tank	0.20
	<b>Total</b>	
4.	<b><u>Electrical Services</u></b>	
i)	Internal electric installations all floors	0.20
ii)	External electric installation	0.05
iii)	CCTV	0.01
iv)	Power wiring and installation in all dwelling units in all floors.	0.07
v)	Centralized intercom system	0.02
vi)	Passenger Elevators	0.06
vii)	Fire prevention and firefighting arrangement as Fire regulation 2017/ NBC 2016	0.07
viii)	33kV/0.433kV or 11kV/0.433 kV substation (Minimum 250 KVA)	0.04
ix)	Supplying, installation, testing and commissioning of Silent Type DG Sets, AMF Panel, Bus Ducting/ Cables from DG Sets to Essential Panel, Synchronizing Panel where required, DG Set enclosure room sound insulation/ventilation/smoke exhaust as required, Earthing of DG Set system, control cabling, Fuel tank/piping, DG set Exhaust piping/ Exhaust Chimney as per CPCB norms, Civil works connected with DG Sets including Foundation as required. (Minimum 100 KVA)	0.02
x)	Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc. (Minimum 50 KVA)	0.02
xi)	Supplying, installation, testing and commissioning of Grid interactive roof top solar photo voltaic power generation system including space frame (Minimum 10 kWp)	0.01
xii)	Supplying, installation, testing and commissioning of VRF Air conditioning System. Outdoor capacity of 10 HP to 20 HP units with matching indoor units of 2 HP to 3 HP capacity in Guest rooms, Dining areas, and second floor multipurpose halls. (Minimum 200 HP)	0.15
	<b>Total</b>	
	<b>D. Miscellaneous Works</b>	<b>0.72</b>
1	Approach paths and tennis courts with cement concrete pavement with vacuum dewatered concrete	0.75
2	Trenches for services	0.10
3	Storm water drain	0.40
4	Rainwater Harvesting (Considering total roof area)	0.56

<b>Sl No</b>	<b>Name of Item</b>	<b>Payment as % of Agreement Cost</b>
5	Internal road with pigmented paver blocks / concrete cobble stone and Kerb stone edging on both sides.	0.85
6	Boundary wall with 1.5 m, normal height from GL & 600 mm high MS grill and required no of MS steel gates fixed with RCC columns, wicket gates fixed with load bearing brick wall and plastering on either side and with/without intermediate columns and plinth beams.	0.25
7.	Horticulture operations including 30 cm earth filling, grassing, tree plantations/shrubs and potted plants etc.	0.10
8.	Providing and fixing of customized Aluminum formwork for monolithic construction RCC members with a repetitive usage of 100 times using grade 5052 aluminum for panel sheets of minimum 4 mm thick and grade 6061 (Type-6) aluminum for extruded sections. The form work includes of beam components i.e. beam side panel, prop head for soffit beam, beams soffit panel, beam soffit bulk head and deck components i.e. deck panel, deck prop, prop length, deck mid, soffit length, deck beam bar and wall components i.e. wall panel, rocker, kicker and internal soffit corner, external soffit corner, external corner, internal corner etc., The panels are held in position by a simple pin and wedge system that passes through holes in the outside rib of each panel. The tolerance of finished panels to be (-1 mm) and shall conform to IS 14687-1999. Pins and wedges to be made of high-grade mild steel, all complete as per direction of Engineer-in-charge. (Cost will be paid if RCC walls executed)	0.30
9.	Streetlighting and area lighting	0.15
<b>Total</b>		<b>3.46</b>
<b>10. ACCEPTANCE STAGE</b>		
	Final approval from competent authority viz. development authority and GRIHA, testing, commissioning with approval from authority like fire officer and completion of all items as per approval.	0.30
	On submission of As-Built drawings and other documents as mentioned in Contract Data.	0.30
	<b>Total</b>	<b>0.60</b>
	<b>Auxiliary Total</b>	<b>7.13</b>
	<b>Grand Total</b>	<b>100.00</b>

Payment may be made on prorated basis on request of the contractor for each individual item in commensurate with progress by the Employer. However, in no case, the total cost of payment shall exceed the Lump Sum Contract Value for which the agreement is signed except change in scope, compensation or bonus etc. as admissible as per the contract.

## Reply to Pre-bid queries

Annexure- III

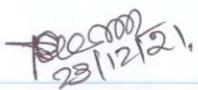
**Name of the work- Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneshwar on Lump-Sum Turnkey basis**

Sr. No.	Spec. Ref. Cl. No.	Tender Specification/ Requirements	Bidder's Queries	Remarks
	<b>COMMERCIAL</b>			
1	Contract Data, pg-99, Cl. 48	<b>Performance Security:</b> Within 21 days of receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security in the form of Bank Guarantee from any bank as mentioned in section-1, Bid data sheet, Cl. 32.1 for an amount equivalent to 3 % (three percent) of the Contract price, payable by its branch at Bhubaneswar in favour of the Managing Director, OB & CC Ltd, Bhubaneswar. The guarantee shall be valid until 28 days from the date of expiry of the Defect Liability Period.	We request you to accept bank guarantee towards Performance Security valid till project completion only. Please confirm.	IFB condition prevails
2	Contract Data, pg-97, Cl. 44.1	Retention Money - Contractor may furnish Bank Guarantee(s) for an amount equal to 5% of the Contract Amount, in which case no deduction for Retention Money shall be made. The Bank Guarantee(s) amounting to 5% of Contract Amount must remain valid at-least up to completion of Works and the Bank Guarantee(s) amounting to at-least 2.5% of Contract Amount must remain valid up to 28 days beyond the defect liability period.	We request you to consider 3% Bank Guarantee for an amount equal to 3% of the Contract Amount (similar to Performance Security) valid up to the end of the defect liability period. Please confirm.	IFB condition prevails
3	ITB, pg-15, Cl. 13.4	The lump sum bid price quoted by the bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment on any account	As the Project duration is long, it is very difficult to speculate the escalation and thereby we request you to consider payment towards Escalation as per the standard CPWD Clause. Please confirm.	IFB condition prevails
4	Conditions of Contract, pg-75, Cl. 47.3	The Advance Payment shall not be released until the basic design & architectural drawings is finalized and establishment of camp at work site is completed	We request the following - The sentence "The Advance Payment shall not be released until the basic design & architectural drawings is finalized and establishment of camp at work site is completed" shall be read as "the advance payment shall not be released until establishment of camp at worksite is completed". Please confirm	IFB condition prevails
5	Contract Data, pg-98, Cl. 45.1	The liquidated damages@ 0.05% of the balance work against the targeted achievement against the Milestone or completion per day subject to a maximum of 10% (ten percent) of the Contract Price, beyond which the Contract shall be deemed to be terminated.	We request that liquidated damages shall not be applicable for the Intermediate milestones. Also, we request that the maximum liquidated damages shall be up to 5% of Contract Prices. Please confirm.	IFB condition prevails
6	Conditions of Contract, pg-64, Cl. 13.1	The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover for the period as stated below against the events and in the amounts and deductibles stated in the Contract Data for the following events, which are due to the Contractor's risks: A) From the starting date to the <b>end of defect liability period</b> : (a) Loss of or damage to the works	We request you to accept Insurance valid till project completion only. Please confirm.	IFB condition prevails
7	Contract Data, pg-93, Cl. 21	The Site Possession Date shall be as following: a) 60% of Site on the date of issuance of Notice to proceed with the Work; b) 85% of Site within 2 months of the date of issuance of Notice to proceed with the Work; <b>c) Balance portion of the Site shall be handed over during execution of the Project.</b>	We request that the entire site free from all encumbrances shall be handed over to us within 7 days from the date of issue of LOA. Please confirm.	IFB condition prevails
8	Conditions of Contract, pg-63, Cl. 8	The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of other Contractors. The Contractor shall as refer to in the Contract Data, also <b>provide facilities and services for them as described in the Schedule</b> .	We request you to specify the facilities and services to be provided for other contractors, public authorities, utilities, and the Employer as the details are not available in the RFP document.	IFB condition prevails
9	Contract Data, pg-91, Cl. 1.1.11	<b>The Defects Liability Period is 5 (Five) Years</b> from the date notified in the Completion certificate of the work. <b>For Land Scaping works the DLP shall be for one year</b> from the date of completion of the works.	We request you to consider Defects Liability period of 01 (one) year for the Work also i.e., similar to Landscaping works. Please confirm.	IFB condition prevails
10	Contract Data, pg-91, Cl. 1.1.6 (IV)	The Contractor shall also be liable for any loss or damage which occurs after a Taking-Over Certificate has been issued and which arose from a previous event for which the Contractor was liable.	We understand that this clause shall be applicable within the Defects liability period only. Please confirm.	IFB condition prevails
11	Contract Data, pg-99, Cl. 55.1	The percentage to apply to the value of the work not completed representing the Employer's additional cost for completing the Works shall be <b>20 %</b> .	We request that there shall not be additional cost recovery from the Contractor for Payment after Termination. Please confirm.	IFB condition prevails
12	Conditions of Contract, pg-74, Cl. 41.2	<b>Compensation Event:</b> If a Compensation Event would prevent the work being completed before the Intended Completion Date, the <b>Intended Completion Date shall be extended</b> .	We understand that there shall be cost compensation along with extension of time for every occurrence of Compensation Event. Please confirm.	IFB condition prevails
13	Conditions of Contract, pg-73, Cl. 38.3	If the Employer decides that the <b>urgency of varying the work</b> would prevent a quotation being given and considered without delaying the work, <b>no quotation shall be given</b> and the Variation shall be treated as a <b>Compensation Event</b> , subject to condition that such variation shall not exceed 5% of the total contract price for the contract work.	We request you to specify the timeline for submission of contractor's quotation and approval of compensation event (for time & cost) by Employer for these works.	IFB condition prevails
14	Conditions of Contract, pg-64, Cl. 11	<b>The Employer is responsible for the excepted risks</b> which are in so far as they directly affect the execution of the Works in India	We understand that suitable time & cost compensation shall be provided by Employer in the event of excepted risks. Please confirm.	IFB condition prevails
15	Contract Data, pg-95, Cl. 27.2, 27.3	The amount to be withheld for late submission of an updated Programme shall be 1% of the Contract Amount to be released upon submission of the next Work Programme.		IFB condition prevails
16	Contract Data, pg-99, Cl. 53.1	<b>As built drawings, operating and maintenance manuals, warranties</b> are required by the Employer and the Contractor shall supply them <b>within 30 days of handing over of the project</b> , failing which 1% of the Contract amount shall be withheld by the Employer.	We request that there shall not be any withholding of payment for any such reasons. Please confirm.	
17	Conditions of Contract, pg-69, Cl. 27.5	Contractor has to facilitate themselves to update the <b>project reporting in client PMIS portal</b> .	We understand that training (if any) shall be provided by Client for updating the project reporting in PMIS portal. Please confirm.	IFB condition prevails

Sr. No.	Spec. Ref. Cl. No.	Tender Specification/ Requirements	Bidder's Queries	Remarks
18		Statutory Approvals	We request you to provide the list of statutory approvals already obtained/ to be obtained by Employer and to be obtained by Contractor, for the project.	All approvals to be obtained by contractor from the respective authorities including any fee as may be payable to the authorities.
19	General	Pre and Post construction statutory approvals.	We understand that we shall be paid/ reimbursed for all the official deposits upon submission of documents to employer. Please confirm.	IFB condition prevails
20		Change in Law	We understand that cost & time implication due to change in existing law/ introduction of new law shall be considered by Employer for adjustment in time & Contract price. Please confirm.	IFB condition prevails
21	ENVIRONMENTAL MITIGATION MEASURES DURING CONSTRUCTION/ Page No. 83/ Pt. 1	Trees will be removed from the corridor of impact (or, site) before the commencement of construction with prior clearance from the Forest Department.	We understand that Tree cutting will be with client scope. Please confirm.	No, It is within the scope of contractor
22		Site Handing Over	We understand that any existing particular feature(s) required to be relocated such as trees, HT / Over Headlines, electrical poles, water pumps, telephone cables, network cables, underground piping etc. shall be done by Employer. Please confirm.	It is within the scope of contractor
23		Site Clearance Works	We understand that encumbrance free site (Free from all existing structures) will be handed over to us for us to start the construction works. Please confirm.	Yes, It is within the scope of contractor
24		Construction Water & Power	We request you to provide Water & Power for Construction on chargeable basis at single point within site. Please confirm.	IFB condition prevails
25	Page No-470 of 521/ Clause No A	Operation and Maintenance The Operation and Maintenance (O&M) of all civil, PH, electrical and mechanical components of the buildings are to be taken up for at least 5 years from the date of handover.	We request you to provide the detailed scope (Inclusions and exclusions) for Operation & Maintenance with regards to various work like Lifts, DGs, Electrical Equipments, Transformers, HT & LT Panels, Light Fixtures, AC System, PHE Fixtures, External lighting, Basement ventilation, STP, WTP, scope related to provision of Water, Power, consumables, break-down maintenance etc.	IFB condition prevails
<b>TECHNICAL</b>				
<b>Architectural/ Structural Scope</b>				
1	APPENDIX- II: Schedule Of Finishes/ Corrigendum-2	Schedule of finishes	We request you to provide the Flooring/Skirting/Dadoing details for Dress Room, BOX, Balcony & Utility.	Finishes to be as per CPWD/GPRA provisions. In case any specifications are missing the same will be finalized during the detailed design by the contractor after approval from the Engineer in Charge.
2	APPENDIX- II: Schedule Of Finishes/ Corrigendum-2	Schedule of finishes	We request you to provide the Finsihing details for Type- VI & VII quarters basement areas.	Finishes to be as per CPWD/GPRA provisions. In case any specifications are missing the same will be finalized during the detailed design by the contractor after approval from the Engineer in Charge.
3	APPENDIX- II: Schedule Of Finishes/ Corrigendum-2	Schedule of finishes	We understand that No False ceiling is required for the Toilets in the Type-VI & Type-VII Quarters. Please confirm.	Finishes to be as per CPWD/GPRA provisions. In case any specifications are missing the same will be finalized during the detailed design by the contractor after approval from the Engineer in Charge.
4	APPENDIX- II: Schedule Of Finishes and APPENDIX-III: List of Acceptable Makes/ Corrigendum-2	Schedule of finishes & List of Acceptable Makes	We understand that in case of any discrepancy with regards to Material Specifications between Appendix-II & Appendix-III, the Appendix-II being the Schedule of Finishes, shall prevail. Please confirm.	In case of any descrepancy the higer / stringent specification would preavil subject to the decision of EIC would be final.
5	GENERAL SPECIFICATIONS FOR COMMUNITY HALL/ Corrigendum-2	Wall paneling as per approved architectural design up to sill level/ 1200 mm height or ceiling height	We request you to provide the location and detailed Technical Specification for wall panelling.	Detailed design is in the scope of the contractor and the panelling will be full height upto the ceiling.
6	1.7 Miscellaneous Works/ Page No. 15 of Corrigendum-2	Approach paths and tennis courts with cement concrete pavement with vacuum dewatered concrete - 17641 Sqm	We understand that the scope towards Tennis courts shall be limited to providing concrete base only (as mentioed in the referred clause). Please confirm.	Tennis court to be made as per standard specification with concrete base.
7	1.4 Type-VI Quarters: (Detail Scope) and 1.5 Type-VII Quarters: (Detail Scope)	Design Requirements	We understand that all the Design Data as mentioned in the referred detailed scope can be optimized as per Bidder's Design in compliance to various Norms as mentioned in the RFP. Please confirm.	Detailed design is in the bidders scope the requirements as mentioned in the IFB are indicative minimum.
8	1.7 Miscellaneous Works/ Page no. 15 of Corrigendum-2	Providing and fixing of customized Aluminium formwork for monolithic construction RCC members.....high-grade mild steel, all complete as per direction of Engineer-in charge. (Cost will be paid if RCC walls executed)- 138371.00 Sqm	We understand that Conventional Formwork Systems can also be considered for this Project. Please confirm.	IFB condition prevails

Sr. No.	Spec. Ref. Cl. No.	Tender Specification/ Requirements	Bidder's Queries	Remarks
9	APPENDIX- II: Schedule Of Finishes/ Corrigendum-2	For multi- storey RCC framed structure - RCC frame & filler walls of Full brick thick masonry in autoclaved aerated cement concrete (ACC) blocks/ burnt clay FPS/ fly ash bricks/ RCC walls with Aluminum formwork.  Internal Partition - Half brick thick masonry in autoclaved aerated cement concrete (ACC) blocks / burnt clay FPS/ fly ash bricks/ RCC walls with Aluminum formwork.		
10	Point No. 10/ Corrigendum-2	Drawing Link	Please provide the link again as we are not able to open the link and download the drawings.	<a href="https://drive.google.com/drive/folders/1uDUus1Q1_7b0onY_9Z09rQL80-JYA9we?usp=sharing">https://drive.google.com/drive/folders/1uDUus1Q1_7b0onY_9Z09rQL80-JYA9we?usp=sharing</a>
11	APPENDIX- II: Schedule Of Finishes/ Corrigendum-2	Schedule Of Finishes	We understand that the bidder has the liberty to choose from various options (wherever multiple options provided for single item) and the selected option will be proposed in bidder's Finishing Schedule as part of the Technical Bid. Please confirm.	Approval of the EIC for every finishing item before execution is mandatory
12	Cl. No. 1.8 Drawing References/ Page no. 16 of Corrigendum-2	The uploaded drawings are indicative in nature and the bidder shall furnish drawing details as per CPWD-GPRA, ODA and other relevant guidelines	We understand that in case of any discrepancy with regards to Unit Plan of Quarters between CPWD-GPRA Norms and the Drawings provided with the RFP, the RFP drawings being specifically prepared for the Project, shall prevail. Please confirm.	IFB condition prevails
13		Schedule of Finishes	Please provide us with the Schedule of Finishes for Service Buildings.	IFB condition prevails
14	Section - 9/ Payment Schedule of Corrigendum-2	Payment Schedule	We understand that the Payment Schedule shall be further revised and elaborated building wise based on the Contract Value break-up as agreed post award of the work. Please confirm.	IFB condition prevails
15	APPENDIX-III: List of Acceptable Makes/ Page No. 44 of Corrigendum-2	Compound Wall Gate - Compound Wall Gate	We understand that Compound Wall Gate shall be of MS type. Please confirm.	IFB condition prevails
16	Pt. No. 25/Page No. 7 of Corrigendum-2	MS Grills (12 mm thick square bar @ 2kg/sqft)to be provided for outside openings and common areas as per design to be approved by Engineer in Charge.	We understand that MS Grills shall be provided as mentioned in Pt. No. 25. Please confirm.	IFB condition prevails
17	APPENDIX-III: List of Acceptable Makes/ Page No. 44 of Corrigendum-2	Window Openings (if any)-AISI 316 L SS Grill		

  
 28/12/21  
 General Manager  
 Bhubaneswar Infra Division  
 O. B. & C. C. Ltd.  
 Bhubaneswar

  
 28/12/21  
 Sr. Chief General Manager,  
 O.B. & C.C. Ltd.,  
 Bhubaneswar

## ODISHA BRIDGE &amp; CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No: 10267  
File: SMT- 1762

Date: 30/12/2021

CORRIGENDUM NO. 4  
(Extension of Dates & Drawings)

Name of the Work	: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis.
Bid Identification No	: 33/Tender/OBCC/2021-22
E-Procurement Tender ID	: 2021_OBCC_72698_1

The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly

Sl. No.	Reference	As per Corrigendum No.3	As Modified
1	Corrigendum 3 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 12.11.2021 to 5.00 P.M. of Dt. 11.01.2022</b> for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 12.11.2021 to 5.00 P.M. of Dt. 27.01.2022</b> for online bidding
2	Corrigendum 3 Sl. No. 2	The Bid Shall be received only on “online” on or before <b>5.00 P.M. of Dt. 11.01.2022</b> .	The Bid Shall be received only on “online” on or before <b>5.00 P.M. of Dt. 27.01.2022</b> .
3	Corrigendum 3 Sl. No. 3	The technical Bids received online shall be opened <b>on dt. 12.01.2022 at 11:30 A.M.</b>	The technical Bids received online shall be opened <b>on dt. 28.01.2022 at 11:30 A.M.</b>
4	Corrigendum 3 Sl. No. 4	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>11.00 A.M on 12.01.2022</b> to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 12.01.2022 in the office of the Employer.</i>	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>11.00 A.M on 28.01.2022</b> to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 28.01.2022 in the office of the Employer.</i>
5	Corrigendum 3 Sl. No. 5	Time and date of online submission is on or before <b>5.00 P.M. of Dt. 11.01.2022</b>  For Cover-III & Cover-IV, time and date of offline submission is on or before <b>11.00 A.M on 12.01.2022</b> in the office of the Employer.	Time and date of online submission is on or before <b>5.00 P.M. of Dt. 27.01.2022</b>  For Cover-III & Cover-IV, time and date of offline submission is on or before <b>11.00 A.M on 28.01.2022</b> in the office of the Employer.

**SI No.06 :** The survey and contour drawings for the above work are replaced in the google drive link provided in Corrigendum No.3 which was as under.

[https://drive.google.com/drive/folders/luDUuslQ1\\_7b0onY\\_9ZQ9rQL80-JYA9we?  
usp=sharing](https://drive.google.com/drive/folders/luDUuslQ1_7b0onY_9ZQ9rQL80-JYA9we?usp=sharing)

**SI No.07 :** This Corrigendum shall be part of the RFP documents

**SI No.08 :** All other terms and conditions remain unchanged.

*Sury  
BO(12)21*  
**EIC-cum-Managing Director**



ଓଡ଼ିଶାସ୍ତ୍ରୋନିମିଣିଗମଳି  
(ଓଡ଼ିଶାସରକାରଙ୍କପୂର୍ବ ବିଭାଗ ଅଧ୍ୟନର ଏକଭଦ୍ୟୋଗ)

**ODISHA BRIDGE & CONSTRUCTION CORPORATION LIMITED**  
(A Government of Odisha Undertaking under Works Department)

No: ୩୭୫  
File: SMT- 1762

Date: ୧୯/୦୧/୨୦୨୨

**CORRIGENDUM NO. 5**

**(Date Extension, Modification of Clauses and Reply to queries)**

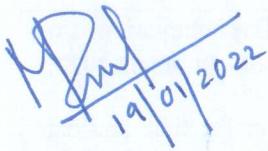
Name of the Work	: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis.
Bid Identification No	: 33/Tender/OBCC/2021-22
E-Procurement Tender ID	: 2021_OBCC_72698_1

The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly

Sl. No.	Reference	As per Corrigendum No.4	As Modified
1	Corrigendum 4 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 12.11.2021 to 5.00 P.M. of Dt. 27.01.2022</b> for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 12.11.2021 to 5.00 P.M. of Dt. 08.02.2022</b> for online bidding
2	Corrigendum 4 Sl. No. 2	The Bid Shall be received only on “online” on or before <b>5.00 P.M. of Dt. 27.01.2022</b> .	The Bid Shall be received only on “online” on or before <b>5.00 P.M. of Dt. 08.02.2022</b> .
3	Corrigendum 4 Sl. No. 3	The technical Bids received online shall be opened <b>on dt. 28.01.2022 at 11:30 A.M.</b>	The technical Bids received online shall be opened <b>on dt. 09.02.2022 at 11:30 A.M.</b>
4	Corrigendum 4 Sl. No. 4	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>11.00 A.M on 28.01.2022</b> to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 28.01.2022 in the office of the Employer.</i>	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>11.00 A.M on 09.02.2022</b> to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 09.02.2022 in the office of the Employer.</i>
5	Corrigendum 4 Sl. No. 5	Time and date of online submission is on or before <b>5.00 P.M. of Dt. 27.01.2022</b>  For Cover-III & Cover-IV, time and date of offline submission is on or before <b>11.00 A.M on 29.01.2022</b> in the office of the Employer.	Time and date of online submission is on or before <b>5.00 P.M. of Dt. 08.02.2022</b> .  For Cover-III & Cover-IV, time and date of offline submission is on or before <b>11.00 A.M on 09.02.2022</b> in the office of the Employer.

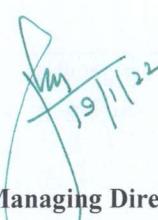
<b>Sl. No.</b>	<b>Reference</b>	<b>As per Corrigendum No.3</b>	<b>As Modified</b>
6	Corrigendum 3 Annexure- I, Page- 8	The unit area of Type- VI Quarters will be as per CPWD GPRA- 2012 plinth area norms, and the requirements and the unit area for Type- VII Quarters..... interactive roof top solar panels as per net available roof area are to be provided in order to comply at least <b>GRIHA- 3 star/ IGBC GOLD rating.</b>	The unit area of Type- VI Quarters will be as per CPWD GPRA- 2012 plinth area norms, and the requirements and the unit area for Type- VII Quarters..... interactive roof top solar panels as per net available roof area are to be provided in order to comply at least <b>GRIHA- 3-star rating.</b>
7	Corrigendum 3 Annexure- I, Page- 30	<b>UPS System:</b> Supplying, installation, testing and commissioning of online single phase UPS System <b>with 60 minutes back up.....</b> with unity power factor, for emergency lighting & lift management system.	<b>UPS System:</b> Supplying, installation, testing and commissioning of online single phase UPS System <b>with 30 minutes back up.....</b> with unity power factor, for emergency lighting & lift management system.
8	Corrigendum 3 Annexure- I, Page- 3	The Operation and Maintenance (O&M) of all civil..... O&M for the specified time period, the same shall be executed through other agencies and the cost shall be realized from the performance security available with the employer	O&M scope is deleted from this Tender.
<b>Sl. No.</b>	<b>Reference</b>	<b>As per IFB</b>	<b>As Modified</b>
9	Conditions of Contract, pg-75, Cl. 47.3	The Advance Payment shall not be released until the basic design & architectural drawings is finalized and establishment of camp at work site is completed	<ol style="list-style-type: none"> <li>1. 50% of the advance amount against Bank Guarantee (duly verified from the bank), to be released after establishment of Camp at work site.</li> <li>2. Balance 50% of the advance amount against Bank Guarantee (duly verified from the bank), to be released after the agency applied for EC, Master plan approval and approval of final DBR (MEPF &amp; Structural) by Employer.</li> </ol>

- SI No. 10 :** Please refer responses to Pre-bid queries attached as Annexure- I.
- SI No. 11 :** Please refer revised schedule of finishes and approved make in Revised Section- 8 of Corrigendum- 3 attached as Annexure- II.
- SI No. 12 :** The Corrigendum shall be the part of the RFP documents.
- SI No. 13 :** All the items specified in this corrigendum supersede relevant items to that effect as provided in the original RFP documents/ Corrigendum.
- SI No. 14 :** All other terms and conditions remain unchanged.



19/1/2022

19/1/22.



19/1/22

EIC-cum-Managing Director

## ODISHA BRIDGE &amp; CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No: ୭୧୩  
File: SMT- 1762

Date: ୦୫/୦୨/୨୦୨୨

CORRIGENDUM NO. 6

## (Date Extension, Reply to prebid queries and Modification of Clauses)

Name of the Work	: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump- Sum Turnkey basis.
Bid Identification No	: 33/Tender/OBCC/2021-22
E-Procurement Tender ID	: 2021_OBCC_72698_1

The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly

Sl. No.	Reference	As per Corrigendum No.5	As Modified
1	Corrigendum 5 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 12.11.2021 to 5.00 P.M. of Dt. 08.02.2022 for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 12.11.2021 to 5.00 P.M. of Dt. 22.02.2022 for online bidding
2	Corrigendum 5 Sl. No. 2	The Bid Shall be received only on “online” on or before 5.00 P.M. of Dt. 08.02.2022.	The Bid Shall be received only on “online” on or before 5.00 P.M. of Dt. 22.02.2022.
3	Corrigendum 5 Sl. No. 3	The technical Bids received online shall be opened on dt. 09.02.2022 at 11:30 A.M.	The technical Bids received online shall be opened on dt. 23.02.2022 at 11:30 A.M.
4	Corrigendum 5 Sl. No. 4	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before 11.00 A.M on 09.02.2022 to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 09.02.2022 in the office of the Employer.</i>	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before 11.00 A.M on 23.02.2022 to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 23.02.2022 in the office of the Employer.</i>
5	Corrigendum 5 Sl. No. 5	Time and date of online submission is on or before 5.00 P.M. of Dt. 08.02.2022.  For Cover-III & Cover-IV, time and date of offline submission is on or before 11.00 A.M on 09.02.2022 in the office of the Employer.	Time and date of online submission is on or before 5.00 P.M. of Dt. 22.02.2022.  For Cover-III & Cover-IV, time and date of offline submission is on or before 11.00 A.M on 23.02.2022 in the office of the Employer.

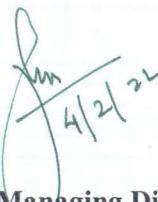
<b>Sl. No.</b>	<b>Reference</b>	<b>As per IFB</b>	<b>As Modified</b>
6.	Section 1: ANNEXURE - II TO ITB	Personnel and Establishment	Amended as per Annexure-1 of this Corrigendum
7.	Section 4 Contract Data Clause 37.6 <b>Change of Scope</b>	The total value of all change of scope of work shall not exceed 5% of total contract price for the construction work	The total value of all change of scope of work shall not exceed 10% of total contract price for the construction work.

**SI No. 08** : Please refer the responses to the pre-bid queries attached as Annexure-II

**SI No. 09** : The Corrigendum shall be the part of the RFP documents.

**SI No. 10** : All the items specified in this corrigendum supersede relevant items to that effect as provided in the original RFP documents/ Corrigendum.

**SI No. 11** : All other terms and conditions remain unchanged.



EIC-cum-Managing Director

## **Annexure-I to Corrigendum No.6**

### **Section-1: Annexure-II to ITB**

#### **CLAUSE 1.2 (C)**

##### **Personnel and Establishment:**

Sl. No	Attributes	Maximum Marks	Evaluation
(e)	<b>Personnel and Establishment</b> Refer clause 4.2 (e) of ITB	<b>25 Marks</b>	The below mentioned CVs are to be submitted by the bidder in their technical proposal for evaluation. The need of adequate technical staff to execute the works is to be assessed by the bidder and deployed as per requirement.
(i)	Project Manager – 1 No	5 Marks	Graduate in Civil Engineering with 15 years' experience of multi-storeyed building construction
(ii)	Geotechnical Engineer – 1 No	3 Marks	Post Graduate in Geotechnical Engineering with 10 years' experience in industrial / infrastructure projects
(iii)	Structural Engineer – 1 No	3 Marks	Post Graduate in Structural Engineering with 10 years' experience in structural design / supervision of buildings
(iv)	Architect – 1 No	2 Marks	Graduate in Architecture with 10 years' experience of building design / supervision
(v)	Planning and Scheduling Engineer – 1 No	2 Marks	Graduate in Civil Engineering with 10 years' experience of planning and scheduling in construction projects
(vi)	Electrical Engineer – 1 No	2 Marks	Graduate in Electrical Engineering with 10 years' experience in building electrical design / supervision
(vii)	HVAC/ Mechanical Engineer	2 Marks	Graduate in Mechanical Engineering with 10 years' experience in HVAC / Electro-mechanical design/ supervision
(viii)	Plumbing Engineer	2 Marks	Graduate in Mechanical / Civil Engineering with 10 years' experience in MEP/ Plumbing design/ supervision
(ix)	Quality Engineer – 1 No	2 Marks	Graduate in Civil Engineering with 7 years' experience in QA/QC of buildings
(x)	Safety Engineer – 1 No	2 Marks	Graduate in Engineering and certification in HSE with 7 years' experience in building construction / supervision

*Note: In case of Bidder who scores the qualifying marks of 12.5 out of 25 in the **Personnel and Establishment** criteria, some of whose CVs does not meet the required eligibility criteria and is the lowest quoted Bidder shall replace the CVs of the ineligible candidates with CVs meeting the eligibility criterion as mentioned above before issuance of Letter of Award.*

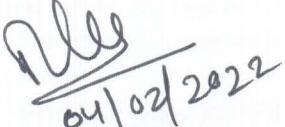
Reply to Pre-Bid Queries for Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubanehswar on Lump-Sum Turnkey basis

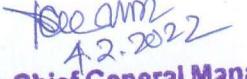
Tender No : 33 /Tender/OBCC/2021-22

ANNEXURE - II

Sr.No	Spec. Ref. Cl. No.	Tender Specification/ Requirements	Bidder's Queries	Remarks
	<b>TECHNICAL</b>			
	<b>CIVIL/ ARCHITECTURAL</b>			
1	Corrigendum-5, Appendix II, Schedule of Finishes, pg-1, Cl. 3.1	Doors: Providing & fixing of NCL Dura Door or equivalent, with Frame and Shutter as a single unit supply	Please note that <b>NCL Dura Door</b> is Cement bonded Particle Board whereas other approved makes are Metal doors and not cement bonded particle board. Hence, we request you to provide additional approved makes for equivalent product, otherwise the choice will be limited to <b>one brand</b>	IFB condition prevails.
1	Corrigendum-5, Appendix III, List of Acceptable Makes, pg-12, Cl. E	Door & Window: NCL/ Tata pravesh/ Jindal		
2	Corrigendum-3, pg-8 of 46, S.No. (c) 1	The multi storeyed buildings should have adequate basement floor parking with provision of Two cars for each unit in compliance to ODA/ NBC norms.	We request you to clarify the number of car parkings to be considered for each unit i.e. <b>2 or 3</b> nos per Unit.	IFB condition prevails.
	GPRA F No 22011/01/2008-W.3	3 nos Car parking are specified for Type VI & Type VII units.		
	<b>COMMERCIAL</b>			
1	Contract Data, pg-93, Cl. 21	The Site Possession Date shall be as following: a) 60% of Site on the <b>date of issuance of Notice to proceed</b> with the Work; b) 85% of Site within 2 months of the date of issuance of Notice to proceed with the Work; c) <b>Balance portion of the Site shall be handed over during execution of the Project.</b>	We once again request you to consider the following points: Notice to proceed shall be given <b>within 30 days</b> from the date of issue of Letter of Intent/ Award. Please confirm.	IFB condition prevails.
2			We request that the entire site free from all encumbrances shall be handed over to us <b>within 60 days</b> from the date of issue of Letter of Intent/ Award. Please confirm.	IFB condition prevails.
3	Contract Data, pg-91, Cl. 1.1.11	The <b>Defects Liability Period is 5 (Five) Years</b> from the date notified in the Completion certificate of the work. <b>For Land Scaping works the DLP shall be for one year</b> from the date of completion of the works.	We request you to consider Defects Liability period of <b>01 (one) year</b> for the Work from the date of completion in lieu of 5 years since O&M for 5 years is not under current scope as per Corrigendum-5. Please confirm.	For O & M refer corrigendum 5
4	Terms of Reference, Design Brief & Scope of Work, pg-4, Cl. (a) (vii)	The Contractor/developer is responsible to obtain approval of drawings, <b>environmental clearance (if any), clearance from Airport authority of India and all other statutory clearances</b> from the competent authorities as may be required for the project.	We once again request that obtaining environmental clearance and clearance from Airport Authority of India shall be under Client's scope. Please confirm.	IFB condition prevails.

Sr.No	Spec. Ref. Cl. No.	Tender Specification/ Requirements	Bidder's Queries	Remarks
5	Corrigendum-3, pg-57 of 58, S.No. 18	All approvals to be obtained by contractor from the respective authorities including any fee as may be payable to the authorities.	We once again request that all statutory fees as may be payable to the authorities for obtaining statutory approvals shall be borne by Client as per Government procedure. Please confirm.	Refer corrigendum- 5
6	Corrigendum-5, S.No. 9	pg-2, 1. 50% of the advance amount against Bank Guarantee (duly verified from the bank), to be released after establishment of Camp at work site 2. Balance 50% of the advance amount against Bank Guarantee (duly verified from the bank), to be released after the agency applied for EC, Master plan approval and approval of final DBR (MEPF & Structural) by Employer.	We request you to pay 100% of the advance amount against Bank Guarantee in single installment upon completion of establishment of camp at worksite. Please confirm.	IFB condition prevails.
	<b>GENERAL</b>			
1		Space for Labour colony & Batching Plant	We request that that the contractor shall be allowed free open space for setting-up of the Batching Plant & Labour Hutment within the site premises depending on the space availability. Please confirm.	IFB condition prevails.

  
 04/02/2022  
 General Manager  
 Bhubaneswar Infra Division  
 O. B. & C. C. Ltd.  
 Bhubaneswar

  
 04/02/2022  
 Sr. Chief General Manager,  
 O.B. & C.C. Ltd.,  
 Bhubaneswar

No: 856

Date: 10-02-2022

File: SMT- 1762

**CORRIGENDUM NO. 7****(Modification of Topographical Survey Drawing)**

Name of the Work

: Construction of 195 nos. Type-VI &amp; 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis.

Bid Identification No

: 33/Tender/OBCC/2021-22

E-Procurement Tender ID

: 2021\_OBCC\_72698\_1

The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly

The Revised Topographical site plan for Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump- Sum Turnkey basis is uploaded at the following google drive link. The area of the OLA guest house measuring approximately 0.70 Acre will be retained i.e no construction activities will be taken up in this area. The planning for construction of Type VI & Type VII quarters will be done for rest of the area i.e 16.96 Acre.

The area for construction wherever referred to in the entire bid document shall be 16.96 Acre instead of 17.66 Acre.

The google drive link for revised site plan is given below-

<https://drive.google.com/drive/folders/1OgTY2DRBzYBzUyF6d8Blvax-6o6eRt55?usp=sharing>

<b>SI No. 01</b>	:	The Corrigendum shall be the part of the RFP documents.
<b>SI No. 02</b>	:	All the items specified in this corrigendum shall supercede relevant items to that effect as provided in the original RFP documents/ Corrigendum.
<b>SI No. 03</b>	:	All other terms and conditions remain unchanged.



EIC-cum-Managing Director

## ODISHA BRIDGE &amp; CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No: 957

File: SMT- 1762

Date: 16-02-2022

CORRIGENDUM NO. 8

## (Extension of Date and Modification Section)

Name of the Work

: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump-Sum Turnkey basis.

Bid Identification No

: 33/Tender/OBCC/2021-22

E-Procurement Tender ID

: 2021\_OBCC\_72698\_1

The bidders are requested to take note of the following changes made in the RFP documents, which are to be considered while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly

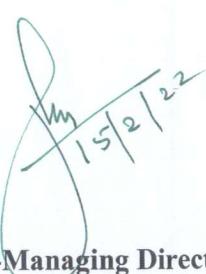
Sl. No.	Reference	As per Corrigendum No.6	As Modified
1	Corrigendum 6 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 12.11.2021 to 5.00 P.M. of Dt. 22.02.2022</b> for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 12.11.2021 to 4.00 P.M. of Dt. 03.03.2022</b> for online bidding
2	Corrigendum 6 Sl. No. 2	The Bid Shall be received only on “online” on or before <b>5.00 P.M. of Dt. 22.02.2022</b> .	The Bid Shall be received only on “online” on or before <b>4.00 P.M. of Dt. 03.03.2022</b> .
3	Corrigendum 6 Sl. No. 3	The technical Bids received online shall be opened <b>on dt. 23.02.2022 at 11:30 A.M.</b>	The technical Bids received online shall be opened <b>on dt. 03.03.2022 at 4:30 P.M.</b>
4	Corrigendum 6 Sl. No. 4	<p>The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>11.00 A.M on 23.02.2022</b> to the Managing Director, OB&amp;CC Ltd. failing which the bid shall not be evaluated and liable for rejection.</p> <p><i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 23.02.2022 in the office of the Employer.</i></p>	<p>The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>04.00 P.M on 03.03.2022</b> to the Managing Director, OB&amp;CC Ltd. failing which the bid shall not be evaluated and liable for rejection.</p> <p><i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 04.00 P.M on 03.03.2022 in the office of the Employer.</i></p>
5	Corrigendum 6 Sl. No. 5	<p>Time and date of online submission is on or before <b>5.00 P.M. of Dt. 22.02.2022</b>.</p> <p><i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 11.00 A.M on 23.02.2022 in the office of the Employer.</i></p>	<p>Time and date of online submission is on or before <b>4.00 P.M. of Dt. 03.03.2022</b>.</p> <p><i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 04.00 P.M on 03.03.2022 in the office of the Employer.</i></p>

Sl. No.	Reference	As per Corrigendum No.3	As Modified																																																							
6	Corrigendum-3 Annexure- II Page No- 4, 5	<p><b>C. Community Halls (2 nos.)</b></p> <table border="1"> <tr> <td data-bbox="429 316 788 349"><b>1. Design Stage</b></td> <td data-bbox="788 316 951 349"></td> </tr> <tr> <td data-bbox="429 349 788 630">i) On approval of Inception Report, detail survey and draft architectural drawing &amp; QMP</td> <td data-bbox="788 349 951 630">0.10</td> </tr> <tr> <td data-bbox="429 630 788 663">ii) On approval of Site development plan and architectural drawing</td> <td data-bbox="788 630 951 663">0.10</td> </tr> <tr> <td data-bbox="429 663 788 697">iii) On approval of MEP</td> <td data-bbox="788 663 951 697">0.10</td> </tr> <tr> <td data-bbox="429 697 788 630">iv) On approval of final Architectural drawing showing electrical and sanitary layout plan and detail structural design and interior design/decoration</td> <td data-bbox="788 697 951 630">0.10</td> </tr> <tr> <td data-bbox="429 630 788 697"><b>2. Construction Stage</b></td> <td data-bbox="788 630 951 697"><b>0.40</b></td> </tr> <tr> <td data-bbox="429 697 788 731">i) <b>On Completion of Structural work</b></td> <td data-bbox="788 697 951 731"></td> </tr> <tr> <td data-bbox="429 731 788 787">a. Foundation &amp; Plinth of 0.75m above AGL</td> <td data-bbox="788 731 951 787">0.25</td> </tr> <tr> <td data-bbox="429 787 788 820">b. Ground Floor (3.0 m Height)</td> <td data-bbox="788 787 951 820">0.25</td> </tr> <tr> <td data-bbox="429 820 788 854">c. First Floor (3.0 m Height)</td> <td data-bbox="788 820 951 854">0.25</td> </tr> <tr> <td data-bbox="429 854 788 888">d. Second Floor (3.0 m Height)</td> <td data-bbox="788 854 951 888">0.25</td> </tr> <tr> <td data-bbox="429 888 788 944" style="text-align: right;"><b>Total</b></td> <td data-bbox="788 888 951 944"><b>1.00</b></td> </tr> <tr> <td data-bbox="429 944 788 977">ii) <b>On completion of finishing work</b></td> <td data-bbox="788 944 951 977"></td> </tr> <tr> <td data-bbox="429 977 788 1034">a. Foundation &amp; Plinth</td> <td data-bbox="788 977 951 1034">0.00</td> </tr> <tr> <td data-bbox="429 1034 788 1067">b. Ground Floor (3.0 m Height)</td> <td data-bbox="788 1034 951 1067">0.25</td> </tr> <tr> <td data-bbox="429 1067 788 1101">c. First Floor (3.0 m Height)</td> <td data-bbox="788 1067 951 1101">0.25</td> </tr> <tr> <td data-bbox="429 1101 788 1157">d. Second Floor (3.0 m Height)</td> <td data-bbox="788 1101 951 1157">0.25</td> </tr> <tr> <td data-bbox="429 1157 788 1191" style="text-align: right;"><b>Total</b></td> <td data-bbox="788 1157 951 1191"><b>0.75</b></td> </tr> </table>	<b>1. 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ii) On approval of Site development plan and architectural drawing	0.10																																																									
iii) On approval of MEP	0.10																																																									
iv) On approval of final Architectural drawing showing electrical and sanitary layout plan and detail structural design and interior design/decoration	0.10																																																									
<b>2. Construction Stage</b>	<b>0.40</b>																																																									
i) <b>On Completion of Structural work</b>																																																										
a. Foundation & Plinth of 0.75m above AGL	0.25																																																									
b. Ground Floor (3.0 m Height)	0.25																																																									
c. First Floor (3.0 m Height)	0.25																																																									
d. Second Floor (3.0 m Height)	0.25																																																									
<b>Total</b>	<b>1.00</b>																																																									
ii) <b>On completion of finishing work</b>																																																										
a. Foundation & Plinth	0.00																																																									
b. Ground Floor (3.0 m Height)	0.25																																																									
c. First Floor (3.0 m Height)	0.25																																																									
d. Second Floor (3.0 m Height)	0.25																																																									
<b>Total</b>	<b>0.75</b>																																																									
<b>1. Design Stage</b>																																																										
i) On approval of Inception Report, detail survey and draft architectural drawing & QMP	0.10																																																									
ii) On approval of Site development plan and architectural drawing	0.10																																																									
iii) On approval of MEP	0.10																																																									
iv) On approval of final Architectural drawing showing electrical and sanitary layout plan and detail structural design and interior design/decoration	0.10																																																									
<b>Total</b>	<b>0.40</b>																																																									
<b>2. Construction Stage</b>																																																										
i) <b>On Completion of Structural work</b>	<b>1.00</b>																																																									
ii) <b>On completion of finishing work</b>	<b>0.75</b>																																																									

**SI No. 7** Please refer to the revised Section- 8 (Terms of reference, design brief & Scope of work) attached as Annexure- I. This supercedes to all the items of Section- 8 and previous corrigendums related to section- 8.

**SI No. 8** This Corrigendum shall be the part of the RFP documents.

**SI No. 9** All other terms and conditions remain unchanged.



EIC-cum-Managing Director  
15/2/22



ଓଡ଼ିଶାସେତ୍ରଓନ୍ମାଣନିଗମଳୀ

(ଓଡ଼ିଶାସରକାରଙ୍କପୂର୍ବ ବିଭାଗ ଅଧ୍ୟନର ଏକଉଦ୍ୟୋଗ)

## ODISHA BRIDGE & CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No:1171  
File:SMT- 1762

Date: 24.02.2022

### CORRIGENDUM NO. 9

#### (Modification of Topographical Survey Drawing, Clauses and Date Extension)

Name of the Work	: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump- Sum Turnkey basis.
Bid Identification No	: 33/Tender/OBCC/2021-22
E-Procurement Tender ID	: 2021_OBCC_72698_1

The bidders are requested to take note of the following changes made in the RFP documents.

The Revised Topographical site plan for Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump- Sum Turnkey basis is uploaded. The area of the OLA guest house building only measuring approximately 0.20 Acre will be retained i.e no construction activities will be taken up in this area. The planning for construction of Type VI & Type VII quarters will be done for rest of the area i.e 17.46 Acre.

The area for construction wherever referred to in the entire bid document shall be 17.46 Acre instead of 16.96 Acre.

The google drive link for revised site plan is given below

<https://drive.google.com/drive/folders/1zE5-yeRM6j3XJIg02AYcl8qgXbYDRN5C?usp=sharing>

Sl. No.	Reference	As per Corrigendum No.8	As Modified
1	Corrigendum 8 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 12.11.2021 to 4.00 P.M. of Dt. 03.03.2022 for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from Dt. 12.11.2021 to 4.00 P.M. of Dt. 15.03.2022 for online bidding
2	Corrigendum 8 Sl. No. 2	The Bid Shall be received only on “online” on or before 4.00 P.M. of Dt. 03.03.2022.	The Bid Shall be received only on “online” on or before 4.00 P.M. of Dt. 15.03.2022.
3	Corrigendum 8 Sl. No. 3	The technical Bids received online shall be opened on dt. 03.03.2022 at 4:30 P.M.	The technical Bids received online shall be opened on dt. 15.03.2022 at 4:30 P.M.

<b>Sl. No.</b>	<b>Reference</b>	<b>As per Corrigendum No.8</b>	<b>As Modified</b>
4	Corrigendum 8 Sl. No. 4	<p>The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>04.00 P.M on 03.03.2022</b> to the Managing Director, OB&amp;CC Ltd. failing which the bid shall not be evaluated and liable for rejection.</p> <p><i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 04.00 P.M on 03.03.2022 in the office of the Employer.</i></p>	<p>The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>04.00 P.M on 15.03.2022</b> to the Managing Director, OB&amp;CC Ltd. failing which the bid shall not be evaluated and liable for rejection.</p> <p><i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 04.00 P.M on 15.03.2022 in the office of the Employer.</i></p>
5	Corrigendum 8 Sl. No. 5	<p>Time and date of online submission is on or before <b>4.00 P.M. of Dt. 03.03.2022.</b></p> <p>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before <b>04.00 P.M on 03.03.2022</b> in the office of the Employer.</p>	<p>Time and date of online submission is on or before <b>4.00 P.M. of Dt. 15.03.2022.</b></p> <p>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before <b>04.00 P.M on 15.03.2022</b> in the office of the Employer.</p>
6.	Corrigendum- 8 Annexure- I Page No- 40	<p>General Specifications for Community Hall:</p> <p><b>5.0 STAIRCASE:</b></p> <p><i>5.1: Internal Staircase:</i> 18 mm thick Single piece flamed granite or marble flooring in treads &amp; risers with dado of matching permanent finish specifications.</p>	<p>General Specifications for Community Hall:</p> <p><b>5.0 STAIRCASE:</b></p> <p><i>5.1: Internal Staircase:</i> 18 mm thick Single piece <b>flamed granite</b> in treads &amp; risers with dado of matching permanent finish specifications.</p>
7.	Corrigendum- 8 Annexure- I Page No- 40	<p><i>5.2: Fire escape Staircase:</i> 18 mm thick Single piece flamed granite or marble flooring in treads &amp; risers with dado of matching permanent finish specifications</p>	<p><i>5.2: Fire escape Staircase:</i> 18 mm thick Single piece <b>flamed granite</b> in treads &amp; risers with dado of matching permanent finish specifications.</p>
8.	Corrigendum- 8 Annexure- I Page No- 11	<p>Multi storeyed Community Hall (One no) with followings as per the indicative drawing attached.</p> <ol style="list-style-type: none"> <li>1. Allopathic Dispensary with Doctor's room and Toilets</li> <li>2. Homeopathic Dispensary with Doctor's room and Toilets</li> <li>3. Ayurvedic dispensary with Doctor's room and Toilets</li> <li>4. Air-Conditioned Guest rooms with attach toilets and all modern facilities- 20 Nos.</li> <li>5. Police out post</li> <li>6. Railway reservation counter</li> <li>7. Shops of different sizes- 10 Nos.</li> <li>8. Multipurpose shop/ café- 1 No.</li> <li>9. Gent's Parlour</li> <li>10. Ladies Parlour</li> </ol>	<p><b>Multi storeyed Community Hall (One no) with followings.</b></p> <ol style="list-style-type: none"> <li>1. Allopathic Dispensary with Doctor's room and Toilets</li> <li>2. Homeopathic Dispensary with Doctor's room and Toilets</li> <li>3. Ayurvedic dispensary with Doctor's room and Toilets</li> <li>4. Air-Conditioned Guest rooms with attach toilets and all modern facilities- 20 Nos.</li> <li>5. Police out post</li> <li>6. Railway reservation counter</li> <li>7. Shops of different sizes- 10 Nos.</li> <li>8. Multipurpose shop/ café- 1 No.</li> <li>9. Gent's Parlour</li> <li>10. Ladies Parlour</li> </ol>

Sl. No.	Reference	As per Corrigendum No.8	As Modified
		11. Air-Conditioned Multipurpose Hall with common toilet blocks (Ladies & Gents) for a capacity of 500 people. 12. Kitchen, Dining	11. <b>2 nos.</b> Air-Conditioned Multipurpose Halls with common toilet blocks (Ladies & Gents) for a capacity of <b>500 pax each.</b> 12. Kitchen, Dining

**SI No. 09** : The minimum area of basement for Vehicular parking in the project area shall be **31820.00 Sqm.**

**SI No. 10** : The Corrigendum shall be the part of the RFP documents.

**SI No. 11** : Please refer reply to the queries as Annexure- I

**SI No. 12** : All the items specified in this corrigendum shall supercede relevant items to that effect as provided in the original RFP documents/ Corrigendum.

**SI No. 13** : All other terms and conditions remain unchanged.

~~MD~~  
23/02/2022

*Ansmita*  
23/02/2022

*7800 m<sup>2</sup>*  
24.2.22

*S.M*  
24/2/22

EIC-cum-Managing Director

**ANNEXURE-I****Reply to Pre-Bid Queries for Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneshwar on Lump-Sum Turnkey basis**

Tender No : 33 /Tender/OBCC/2021-22

Sr.No	Bidder's Queries	Remarks
1	The area of the OLA guest house measuring approximately 0.70 Acre will be retained due to which now the entire plot divided into Two parts i.e. 13.91 and 3.05 acre of 16.96 acre. Please refer layout plant Annexure – I.	
2	Since the site is split into 2 parts, whether can we get space for an internal connection between the plots for connecting the road and all external services connections.	
3	Does the required infrastructure remains same for 8 towers and Clubhouse. The Clubhouse can be collaborated for both plots (Towers of Type – VII) and can have direct access from outside with internal walkway connection.	Refer Corrigendum- 9
4	If no internal connection is allowed, then all the development will be done on the bigger chunk of land with reduced infrastructure.	

  
23/2/2022  
23-2-2022  
24-2-2022



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(ଓଡ଼ିଶାସରକାରଙ୍କପୂର୍ବ ବିଭାଗ ଅଧୁନର ଏକଉଦ୍ୟୋଗ)

### ODISHA BRIDGE & CONSTRUCTION CORPORATION LIMITED

(A Government of Odisha Undertaking under Works Department)

No: 1530

File: SMT- 1762

Date: 11 -03-2022

### CORRIGENDUM NO. 10

Name of the Work	: Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneswar on Lump- Sum Turnkey basis.
Bid Identification No	: 33/Tender/OBCC/2021-22
E-Procurement Tender ID	: 2021_OBCC_72698_1

The bidders are requested to take note of the following changes made in the RFP documents.

Sl. No.	Reference	As per Corrigendum No.9	As Modified
1	Corrigendum 9 Sl. No. 1	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 16.11.2021 to 4.00 P.M. of Dt. 15.03.2022</b> for online bidding	The Bid documents shall be available in the website: <a href="http://www.tendersodisha.gov.in">www.tendersodisha.gov.in</a> from <b>Dt. 16.11.2021 to 4.00 P.M. of Dt. 30.03.2022</b> for online bidding
2	Corrigendum 9 Sl. No. 2	The Bid Shall be received only on “online” on or before <b>4.00 P.M. of Dt. 15.03.2022</b> .	The Bid Shall be received only on “online” on or before <b>4.00 P.M. of Dt. 30.03.2022</b> .
3	Corrigendum 9 Sl. No. 3	The technical Bids received online shall be opened <b>on dt. 15.03.2022 at 4:30 P.M.</b>	The technical Bids received online shall be opened <b>on dt. 30.03.2022 at 4:30 P.M.</b>
4	Corrigendum 9 Sl. No. 4	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>04.00 P.M on 15.03.2022</b> to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 04.00 P.M on 15.03.2022 in the office of the Employer.</i>	The original financial transaction receipt in support of Bid processing fee and Bid Security declaration shall have to be submitted on or before <b>04.00 P.M on 30.03.2022</b> to the Managing Director, OB&CC Ltd. failing which the bid shall not be evaluated and liable for rejection.  <i>For Cover-III &amp; Cover-IV, time and date of offline submission is on or before 04.00 P.M on 02.04.2022 in the office of the Employer.</i>
5	Corrigendum 9 Sl. No. 5	Time and date of online submission is on or before <b>4.00 P.M. of Dt. 15.03.2022.</b>  For Cover-III & Cover-IV, time and date of offline submission is on or before <b>04.00 P.M on 15.03.2022</b> in the office of the Employer.	Time and date of online submission is on or before <b>4.00 P.M. of Dt. 30.03.2022.</b>  For Cover-III & Cover-IV, time and date of offline submission is on or before <b>04.00 P.M on 02.04.2022</b> in the office of the Employer.

6	Annexure- 1 to Corrigendum 6  Notes:	<p><b>Note:</b> In case of Bidder who scores the qualifying marks of 12.5 out of 25 in the Personnel and Establishment criteria, some of whose CVs does not meet the required eligibility criteria and is the lowest quoted Bidder shall replace the CVs of the ineligible candidates with CVs meeting the eligibility criterion as mentioned above before issuance of Letter of Award.</p>	<p><b>Note:</b> In case of Bidder who scores the qualifying marks of 12.5 out of 25 in the Personnel and Establishment criteria, some of whose CVs does not meet the required eligibility criteria and is the lowest quoted Bidder shall replace the CVs of the ineligible candidates with CVs meeting the eligibility criterion as mentioned above before issuance of Letter of Award.</p> <p>The Replacement Shall be allowed once during the total project Duration. The selected consultant shall deploy the resources approved during the Technical Evaluation excluding the ineligible candidates which shall be replaced</p>
7.	Section 2: Table of Forms.	<b>CV Format</b>	Revised CV format in Annexure I shall be referred.

**SI No. 8** : Please refer reply to the queries as Annexure- II

**SI No. 9** : The Corrigendum shall be the part of the RFP documents.

**SI No. 10** : All the items specified in this corrigendum shall supersede relevant items to that effect as provided in the original RFP documents/ Corrigendum.

**SI No. 11** : All other terms and conditions remain unchanged.



EIC-cum-Managing Director

*Annexure I*

## **CV Format**

Position Title	
Name of Expert:	

Employment and Education record relevant to the assignment:

Total Years of Experience	Relevant years of Experience	Education Qualification with Name of the Institution and year of passing	Name of the Project with duration and activities performed relevant to the Assignment.		
			Name of project	Period (From.... To.....)	Brief description of project and nature of responsibility

*SA*  
11.3.22

*SCC M*  
11.3.22

**Reply to Pre-Bid Queries for Construction of 195 nos. Type-VI & 105 nos. Type-VII quarters at MLA Colony and G.A. Land in Unit-IV, Bhubaneshwar on Lump-Sum Turnkey basis**

Tender No : 33 /Tender/OBCC/2021-22

Sr.No	Bidder's Queries	Remarks
1	<p>As per the tender stipulations, the price quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. However, we would like to bring to your kind attention and highlight here that because of the ongoing war situation in the Country of Russia and Ukraine, the global economy has been drastically impacted. This has a major influence in the commodity prices and the prices of Steel has increased abruptly over the period of one (1) month. Further, there is also a steep increase in prices of diesel and other fuel, which would in-turn affect the logistic cost and subsequently there would be a huge impact on other commodity prices. Furthermore, as per the reports of all major tabloids, the prices of commodity are likely to be increased even further.</p> <p>Given the afore-mentioned market scenario, it is very difficult to forecast the prices of materials for a project duration of 30 months. Hope, you will appreciate that this is a huge risk and as such all the bidders will factor this price impact to mitigate this risk. This would enhance the project cost to a great extent.</p> <p>In such a scenario, we would fervently request your good office with utmost seriousness to kindly consider Price Escalation as per CPWD Clauses of tender, so that the price of the bidders are within considerable limit.</p>	IFB condition prevails

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