GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
SARDAR PATEL VIDYUT BHAVAN
RACE COURSE, VADODARA - 390 007

TENDER SPECIFICATION FOR

Supply, Erection, Testing and Commissioning of various equipments & materials for new 220 / 66 KV system excluding all civil works at existing 400 KV Asoj Sub-station.

PART - I
GENERAL TERMS & CONDITIONS WITH COMMERCIAL BID

TENDER NO:
GETCO/CE(P)/EE(R&M)/DRM1/Tender EPC/2012/Asoj
## DOCUMENTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Notice Invited Tender</td>
<td>-</td>
<td>I</td>
<td>7</td>
</tr>
<tr>
<td>2.</td>
<td>General Conditions of Contract</td>
<td>GCC</td>
<td>I</td>
<td>8 - 54</td>
</tr>
<tr>
<td>3.</td>
<td>Erection Conditions of Contract</td>
<td>ECC</td>
<td>I</td>
<td>55 - 63</td>
</tr>
<tr>
<td>4.</td>
<td>Special Conditions of Contract with Declaration Form</td>
<td>SCC</td>
<td>I</td>
<td>64 - 108</td>
</tr>
<tr>
<td>5.</td>
<td>Technical Specifications (ELECTRICAL)</td>
<td>TSP</td>
<td>II</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Bid Form, Price Schedules and BOQ</td>
<td>BF/PS</td>
<td>III</td>
<td>1 - 31</td>
</tr>
<tr>
<td>Cl. No.</td>
<td>Title</td>
<td>Page No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
<td>----------</td>
<td></td>
<td></td>
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<tr>
<td>TENDER SPECIFICATION NUMBER</td>
<td>1</td>
<td>DOCUMENTS</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>INDEX</td>
<td>3 – 6</td>
<td>NOTICE INVITED TENDER</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>[I] GENERAL CONDITION OF CONTRACT (GCC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>GENERAL PARTICULARS</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SCOPE OF THE PROPOSAL AND WORK</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BIDDING COSTS</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>DETAILS OF DOCUMENTS</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>KNOWING THE BID DOCUMENTS</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>CLARIFICATIONS ON BID DOCUMENTS</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>AMENDMENT OF BIDDING DOCUMENT</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>LANGUAGE OF BID</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>LOCAL CONDITIONS</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>DOCUMENTS COMPRISING THE BID</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>BID PRICE</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>BID SECURITY/EMD</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>FORMAT OF BID</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>SIGNATURE OF BIDS</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>SEALING AND MARKING OF BIDS</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>DEADLINE FOR SUBMISSION OF BIDS</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>LATE BIDS</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>MODIFICATION AND WITHDRAWAL OF BIDS</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>INFORMATION REQUIRED WITH THE PROPOSAL</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>OPENING OF BIDS BY OWNER</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>PURPOSE OF EVALUATION OF BIDS</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>POLICY FOR BIDS UNDER CONSIDERATION</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>PRELIMINARY EXAMINATION</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>AWARD CRITERIA</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>OWNER’S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>NOTIFICATION OF AWARD</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>SIGNING OF CONTRACT</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>DEFINITION OF TERMS</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>APPLICATION</td>
<td>21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>STANDARDS</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>LANGUAGE AND MEASURES</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>PRICE BASIS</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>TAXES AND DUTIES</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>TAXES, PERMITS &amp; LICENCES</td>
<td>23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>PRICE INCLUSIONS (INCLUDING TAXES &amp; DUTIES)</td>
<td>23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>CONTRACT PERFORMANCE GUARANTEE</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>GUARANTEE</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>PERFORMANCE GUARANTEE</td>
<td>26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>TIME SCHEDULE</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>TIME – THE ESSENCE OF CONTRACT</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>PENALTY FOR DELAY</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>DELAYS BY OWNER OR HIS AUTHORISED AGENTS</td>
<td>28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>PRESENTATION OF BILLS</td>
<td>28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
<td></td>
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</tr>
<tr>
<td>---------</td>
<td>------</td>
<td></td>
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</tr>
<tr>
<td>44</td>
<td>PAYMENT</td>
<td>29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>PAYMENT SCHEDULE</td>
<td>29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>DEDUCTIONS FROM CONTRACT PRICE</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>TERMS OF PAYMENT</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>TAKING DELIVERY AND INSURANCE</td>
<td>31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>INSURANCE</td>
<td>31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>CONTRACT QUALITY ASSURANCE</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>ERECTION TOOLS AND TACKLES</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>BRAND NAMES</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>CONTRACT DOCUMENTS</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>USE OF CONTRACT DOCUMENTS AND INFORMATION</td>
<td>34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>CONSTRUCTION OF THE CONTRACT</td>
<td>34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>JURISDICTION OF CONTRACT</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>EXECUTION OF CONTRACT</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>ENFORCEMENT OF TERMS</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>COMPLETION OF CONTRACT</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>REPLACEMENT OF DEFECTIVE PARTS &amp; MATERIALS</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>PATENT RIGHTS AND ROYALTIES</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>DEFENCE OF SUITS</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>LIMITATION OF LIABILITIES</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>ENGINEER'S DECISION</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>POWER TO VARY OR OMIT WORK</td>
<td>37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>ASSIGNMENT AND SUB-LETTING OF CONTRACT</td>
<td>38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>CHANGE OF QUANTITY</td>
<td>38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>PACKING, FORWARDING AND SHIPMENT</td>
<td>38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>COOPERATION WITH OTHER CONTRACTORS AND CONSULTING ENGINEERS</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>NO WAIVER OF RIGHTS</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>CERTIFICATE NOT TO AFFECT RIGHT OF OWNER AND LIABILITY OF THE CONTRACTOR</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>PROGRESS REPORTS</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>TAKING OVER</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>RISK DISTRIBUTION-TRANSFER OF TITLE</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>LIABILITY FOR ACCIDENTS AND DAMAGES</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>DEMURRAGE, WHARFAGE, ETC</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>FORCE MAJEURE</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>SUSPENSION OF WORK</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>CONTRACTOR’S DE FAULT</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>TERMINATION OF CONTRACT ON OWNER’S INITIATIVE</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>FRUSTRATION OF CONTRACT</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>GRAFTS AND COMMISSIONS ETC.</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>SETTLEMENT OF DISPUTES</td>
<td>43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>ARBITRATION</td>
<td>43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>RECONCILIATION OF ACCOUNTS</td>
<td>44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>86</td>
<td>LABOUR LAWS</td>
<td>44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>TERMINATION OF CONTRACT</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>88</td>
<td>TO CANCEL THE CONTRACT</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>89</td>
<td>MATCHING END COST</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>VENDOR REGISTRATION</td>
<td>47</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### GENERAL INFORMATION (TECHNICAL)

<table>
<thead>
<tr>
<th>Cl. No.</th>
<th>TITLE</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GENERAL INFORMATION (TECHNICAL)</td>
<td>48</td>
</tr>
<tr>
<td>2</td>
<td>GALVANISING</td>
<td>51</td>
</tr>
<tr>
<td>3</td>
<td>APPROVED MAKES OF EQUIPMENTS /ITEMS OF SUPPLY</td>
<td>51</td>
</tr>
<tr>
<td>4</td>
<td>INSPECTION AND TESTING OF EQUIPMENT</td>
<td>52</td>
</tr>
<tr>
<td>5</td>
<td>OTHER CONDITIONS</td>
<td>54</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cl. No.</th>
<th>TITLE</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>[II]</td>
<td>ERECTION CONDITIONS OF CONTRACT (ECC)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cl. No.</th>
<th>TITLE</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GENERAL</td>
<td>55</td>
</tr>
<tr>
<td>2</td>
<td>REGULATION OF LOCAL AUTHORITIES AND STATUTES</td>
<td>55</td>
</tr>
<tr>
<td>3</td>
<td>OWNER’S LIEN ON EQUIPMENT</td>
<td>55</td>
</tr>
<tr>
<td>4</td>
<td>ACCESS TO SITE AND WORKS ON SITE</td>
<td>55</td>
</tr>
<tr>
<td>5</td>
<td>CONTRACTOR’S SITE ESTABLISHMENT</td>
<td>55</td>
</tr>
<tr>
<td>6</td>
<td>CO-OPERATION WITH OTHER CONTRACTORS</td>
<td>56</td>
</tr>
<tr>
<td>7</td>
<td>DISCIPLINE OF WORKMEN</td>
<td>56</td>
</tr>
<tr>
<td>8</td>
<td>CONTRACTOR’S FIELD OPERATION</td>
<td>56</td>
</tr>
<tr>
<td>9</td>
<td>PROGRESS REPORT</td>
<td>56</td>
</tr>
<tr>
<td>10</td>
<td>MAN-POWER REPORT</td>
<td>56</td>
</tr>
<tr>
<td>11</td>
<td>PROTECTION OF WORK</td>
<td>56</td>
</tr>
<tr>
<td>12</td>
<td>EMPLOYMENT OF LABOUR</td>
<td>57</td>
</tr>
<tr>
<td>13</td>
<td>FACILITIES TO BE PROVIDED BY THE OWNER</td>
<td>57</td>
</tr>
<tr>
<td>14</td>
<td>FACILITIES TO BE PROVIDED BY THE CONTRACTOR</td>
<td>57</td>
</tr>
<tr>
<td>15</td>
<td>LINES AND GRADES</td>
<td>58</td>
</tr>
<tr>
<td>16</td>
<td>FIRE PROTECTION</td>
<td>58</td>
</tr>
<tr>
<td>17</td>
<td>SECURITY</td>
<td>58</td>
</tr>
<tr>
<td>18</td>
<td>PRE-COMMISSIONING TRIALS AND INITIAL OPERATIONS</td>
<td>58</td>
</tr>
<tr>
<td>19</td>
<td>MATERIALS HANDLING AND STORAGE</td>
<td>58</td>
</tr>
<tr>
<td>20</td>
<td>CONSTRUCTION MANAGEMENT</td>
<td>59</td>
</tr>
<tr>
<td>21</td>
<td>FIELD OFFICE RECORDS</td>
<td>60</td>
</tr>
<tr>
<td>22</td>
<td>CONTRACTOR’S MATERIALS BROUGHT TO SITE</td>
<td>60</td>
</tr>
<tr>
<td>23</td>
<td>PROTECTION OF PROPERTY &amp; CONTRACTOR’S LIABILITY</td>
<td>60</td>
</tr>
<tr>
<td>24</td>
<td>INSURANCE</td>
<td>60</td>
</tr>
<tr>
<td>25</td>
<td>UNFAVOURABLE WORKING CONDITIONS</td>
<td>61</td>
</tr>
<tr>
<td>26</td>
<td>PROTECTION OF MONUMENTS &amp; REFERENCE POINTS</td>
<td>61</td>
</tr>
<tr>
<td>27</td>
<td>WORK &amp; SAFETY REGULATIONS</td>
<td>61</td>
</tr>
<tr>
<td>28</td>
<td>CODE REQUIREMENTS</td>
<td>63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cl. No.</th>
<th>TITLE</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>[III]</td>
<td>SPECIAL CONDITIONS OF CONTRACT (SCC)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cl. No.</th>
<th>TITLE</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GENERAL PARTICULARS</td>
<td>64</td>
</tr>
<tr>
<td>2</td>
<td>TENDER FEE</td>
<td>64</td>
</tr>
<tr>
<td>3</td>
<td>EARNEST MONEY DEPOSIT (EMD)</td>
<td>64</td>
</tr>
<tr>
<td>4</td>
<td>DECLARATION BY BIDDER</td>
<td>64</td>
</tr>
<tr>
<td>5</td>
<td>QUALIFYING REQUIREMENT</td>
<td>64</td>
</tr>
<tr>
<td>6</td>
<td>ADDITIONAL DOCUMENTS</td>
<td>65</td>
</tr>
<tr>
<td>7</td>
<td>COMPLETION PERIOD</td>
<td>65</td>
</tr>
<tr>
<td>8</td>
<td>INSTRUCTIONS BEFORE SUBMITTING YOUR BID.</td>
<td>65</td>
</tr>
<tr>
<td>9</td>
<td>ADDENDUM TO THE TECHNICAL SPECIFICATIONS.</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>10</td>
<td>SCADA &amp; Protection Architecture</td>
<td>66</td>
</tr>
<tr>
<td>11</td>
<td>TRAINING</td>
<td>67</td>
</tr>
<tr>
<td>12</td>
<td>PROGRESS REPORT</td>
<td>67</td>
</tr>
<tr>
<td>13</td>
<td>GUARANTEE &amp; PENALY</td>
<td>67 - 68</td>
</tr>
<tr>
<td>14</td>
<td>DECLARATION</td>
<td>69</td>
</tr>
<tr>
<td>15</td>
<td>ANNEXUE - X</td>
<td>70</td>
</tr>
<tr>
<td>15</td>
<td>CONTRACT AGREEMENT</td>
<td>71-72</td>
</tr>
<tr>
<td>16</td>
<td>BANK GUARANTEE FOR EMD</td>
<td>73</td>
</tr>
<tr>
<td>17</td>
<td>PERFORMANCE BANK GUARANTEE</td>
<td>74</td>
</tr>
<tr>
<td>18</td>
<td>INDEMINITY BOND</td>
<td>75</td>
</tr>
<tr>
<td>19</td>
<td>A/T ACCEPTANCE LETTER</td>
<td>76</td>
</tr>
<tr>
<td>20</td>
<td>PROFORMA OF POWER OF ATTORNEY BY THE JOINT VENTURE</td>
<td>77-79</td>
</tr>
<tr>
<td>21</td>
<td>JOINT VENTURE AGREEMENT</td>
<td>80-81</td>
</tr>
<tr>
<td>22</td>
<td>CERTIFICATE OF TECHNICAL COMPLIANCE</td>
<td>82</td>
</tr>
<tr>
<td>23</td>
<td>SAFTEY CHECK LIST</td>
<td>84 - 95</td>
</tr>
<tr>
<td>24</td>
<td>CONFIRMATION OF DETAILS OF BIDDER</td>
<td>96</td>
</tr>
<tr>
<td>25</td>
<td>COMPLICATION PERIOD</td>
<td>97</td>
</tr>
<tr>
<td>26</td>
<td>FINANCIAL CAPACIBILITY</td>
<td>98</td>
</tr>
<tr>
<td>27</td>
<td>LATEST INCOME TAX CERTIFICATE</td>
<td>99</td>
</tr>
<tr>
<td>28</td>
<td>HUMAN RESOURCE</td>
<td>102</td>
</tr>
<tr>
<td>29</td>
<td>DETAILS OF FIRMS</td>
<td>104</td>
</tr>
<tr>
<td>30</td>
<td>EXPERIENCE DETAIL</td>
<td>105</td>
</tr>
<tr>
<td>31</td>
<td>PERFORMANCE CERTIFICATES</td>
<td>106</td>
</tr>
<tr>
<td>30</td>
<td>CERTIFICATE - A</td>
<td>107</td>
</tr>
<tr>
<td>31</td>
<td>INTEGRITY PACT</td>
<td>108</td>
</tr>
</tbody>
</table>
NOTICE INVITED TENDER
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
VIDYUT BHAVAN
RACE COURSE, VADODARA - 390 007

Tender for the CE (Projects) GETCO for and on behalf of Gujarat Energy Transmission Corporation Ltd., having its Corporate Office at Sardar Patel Vidyut Bhavan, Race Course, Vadodara – 390 007, hereafter called as “GETCO”, intends to invite Tender for Supply, Erection, Testing and Commissioning of various equipments & materials for new 220 / 66 KV system excluding all civil works at existing 400 KV Asoj Sub-station.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>DESCRIPTION</th>
<th>Particulars</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tender No</td>
<td>GETCO/CE(P)/EE(R&amp;M)/DRM1/Tender EPC/2012/Asoj</td>
</tr>
<tr>
<td>2</td>
<td>Name of Sub-station and work</td>
<td>Supply, Erection, Testing and Commissioning of various equipments &amp; materials for new 220 / 66 KV system excluding all civil works at existing 400 KV Asoj Sub-station.</td>
</tr>
<tr>
<td>3</td>
<td>Estimated cost</td>
<td>Rs. 689 Lacs</td>
</tr>
<tr>
<td>4</td>
<td>E.M.D</td>
<td>Rs. 6.89 Lacs 50% in the form of B.G. &amp; 50% in the form of D.D</td>
</tr>
<tr>
<td>5</td>
<td>Time Limit</td>
<td>09 (Nine) Months from the date of commencement given.</td>
</tr>
<tr>
<td>6</td>
<td>Last date of issue of Bid documents</td>
<td>Web-Tender 10.07.2012 14.00Hrs No hard copy of the tender documents will be issued from the office of GETCO</td>
</tr>
<tr>
<td>7</td>
<td>Last Date of receipt of Bid</td>
<td>10.07.2012 ; 15.00 Hrs</td>
</tr>
<tr>
<td>8</td>
<td>Date and time of Opening Technical /QR Bid.</td>
<td>10.07.2012 At 16.00 Hrs</td>
</tr>
<tr>
<td>9</td>
<td>Price of tender</td>
<td>Rs- 10000/- (Non refundable)</td>
</tr>
<tr>
<td>10</td>
<td>Validity</td>
<td>180 Days from the date of Opening of Technical Bid</td>
</tr>
<tr>
<td>11</td>
<td>Type of Tender</td>
<td>Item Rate Basis</td>
</tr>
</tbody>
</table>

Chief Engineer (Projects)

Seal & Signature of Bidder
PART - I (GCC)

GENERAL TERMS AND CONDITION OF CONTRACT

1.0 General Particulars

1.1 The Gujarat Energy Transmission Corporation Ltd., Baroda hereinafter called ‘GETCO’/ ‘OWNER’ intends to receive bids for establishing new 220/66 KV Substation including supply, erection, testing and commissioning of all equipments & works excluding all civil work detailed in the accompanying specifications in accordance with Terms and Conditions herein. The bids shall be prepared and furnished as per these Instructions.

2.0 Scope of the proposal and Work

2.1 The Scope of the proposal shall be on the basis of a single Bidder's responsibility, completely covering all the equipments and installation services specified under the accompanying Technical Specifications. It will include among others as specified therein the following:-

a) Detailed Engineering and detailed calculation.
b) Complete manufacture including shop testing.
c) Providing engineering drawings, data, operation manual, etc for the Owner's approval.
d) Packing and transportation from the manufacturer's works to the Site.
e) Receipt storage, preservation and conservation of equipment & at the Site.
f) Pre-assembly, if any, insurance, erection, testing and commissioning of all the equipments/accessories etc.
g) Reliability tests and performance guarantee tests on completion of commissioning.

2.2 No deviation whatsoever to certain conditions of the bidding documents permitted by the Owner and therefore, the Bidders are advised that while making Bid Proposals and quoting prices these conditions may appropriately be taken into consideration. Bidders are required to furnish a certificate in this regard as per the format provided in Special Conditions of Contract in a separate sealed envelope containing Bid security, which shall accompany the Technical Bid. **Any Bid not accompanied by such certificate shall be rejected by the Owner and shall not be opened.**

2.3 Bids not covering the above cited entire scope of works may be treated as incomplete and hence rejected.

2.4 The Bidder shall complete all the schedules & annexure in the Bid Proposal Sheets, Technical Data Sheets and specified elsewhere. The Qualifying Data should be filled in the required schedule of Bid Proposal Sheets.

2.5 This specification covers the detailing, engineering, manufacturing, testing at works, packing, supply, storage, insurance and handling at site, erection, testing, commissioning and handing over in ready to switch on condition to GETCO of complete equipments/accessories of 220kV & 66kv switch yard work as stated below at existing 400 KV Asoj S/S on EPC basis excluding all civil works.

2.6 The work includes Erection, Testing and Commissioning of various equipments, 220 KV & 66KV class including Bus Stringing, Cabling, Wiring, Earthing, yard lighting etc. as stated hereunder & detailed in the BOQ, Schedules so as to complete the project as per approved bill of quantities and layout drawings.
(1) Scope of work: (Electrical)
Engineering, manufacture, testing, supply to destination site basis, including transportation & insurance, storage, erection, testing & commissioning of the following equipments/items, conductors, insulators & all necessary hardware, clamp connectors etc complete in all respects for the followings;

(A) 220 / 66 KV Switchyard. (Asoj)
(i) 220 / 66 KV Quadruple/Twin Moose/Zebra bus system.
   - Main Bus-I
   - Main Bus – II
   - Transfer Bus
(ii) 220 KV / 66 KV Circuit Breakers, Isolators, CTs, CVTs, Wave Traps, LAs, BPIs, for
   - 220 KV Transformer Bays : 02 Nos.
   - 66 KV Transformer Bay : 02 Nos.
   - 66 KV Feeder Bays : 06 Nos.
   - 66 KV Bus Coupler Bay : 01 No.
   - 66 KV PT Bay : 02 Nos.
   - 66 / 11 KV transformer Bay : 01 No.
(Without 220/66 Kv Supply & erection of Transformer)

(B) SCADA
Complete Sub-Station automation including hardware & software for remote control, station along with associated equipments and Kiosk as defined in tech specifications.

(C) Other activities for 220 KV & 66KV Sub-Station.
(i) Complete relay & protection system including engineering, calculations etc.
(ii) PLCC System.
(iii) Fire protection system
(iv) Air conditioning system
(v) LT Switchgear (A/C & D/C Distribution board)
(vi) 1.1 KV L.T. & Control Cables, 11 KV HT Cables along with all accessories.
(vii) Conductors, earth wire, insulators, hard wares, clamps & connectors, spacers & earthing materials, bay marshalling box.
(viii) Mandatory Spares – As specified in BOQ & tech specification part –II.

(D) Structures:
1. G.I. Lattice structure for 220/66 KV gantry structures (Towers & Beams) to be supplied by bidder shall be as per GETCO's standard drawing, given to successful bidder including preparation of protomodel, inspection & final approval of CE (Proj.) for manufacture, supply, transportation, handling, storage, insurance & erection.
2. G.I. Lattice structure for 220kv & 66KV gantry structures (Towers & Beams) to be supplied by bidder shall be as per GETCO’s standard drawing, which will be given to successful bidder.
3. Design of structure to suit the equipments being supplied by bidder is to be carried out according to base dimension of foundation standardized by ‘GETCO’ for 220kv & 66KV which will be given to successful bidder.

(E) Earthing:
✓ Design of earth-mat with earth rod to be done based on soil resistivity data provided by GETCO.
✓ Execution of earthing work includes supply of all earthing materials.

(F) Lighting.
(i) Yard Lighting of the switchyard.
(ii) Illumination design to be done as per CBIP manual.
(iii) Illumination of the control room.
(iv) Scope is as per BOQ & Specifications as per Part –II.
(G) Any other equipment/materiel, items, H/W, accessories required to complete the specified scope.

✓ Contractor has to provide all engineering drawings, data calculations etc for owners approval as specified in part –I, GCC, general Information.(Tech) – Clause No. 1.2

SCOPE OF WORKS FOR PROPOSED 220/66 KV Switch Yard at existing 400 KV Asoj S/S

The scope of work under this contract shall include construction of all the items mentioned hereunder, but not limited to, which are required for satisfactory & successful completion and commissioning of 220/66 KV Switch Yard at existing 400 KV Asoj S/S Ta & Dist. Vadodara.

1.0 GENERAL

The construction Drgs. for the works shall be issued by the GETCO to the successful bidder for execution. However, such exclusion shall not relieve the contractor from over all responsibility for successful construction & completion of the project.

The contractor shall provide all labour, tools, plants & equipments, material, temporary works, construction plants & machinery, fuel supply, transportation, insurance and all other incidental items not specified but as they may be required for complete performance of the works in accordance with approved drawings, specifications, applicable IS codes & direction of the GETCO.

The work shall be carried out according to design & drawings approved by GETCO based on the tender drawings specified by GETCO to the contractor. However, the successful bidders shall be fully responsible for the fulfilling functional requirement such as operational & maintenance requirements etc. of the project & work shall be carried out as per the applicable IS codes & International standards. In case of ambiguity between codes, specifications and drawings, the most stringent of them shall govern. Certain general requirements are indicated hereunder

2.0 BOQ for Construction work

(i) In the tender separate schedules for works at existing 400 KV Asoj S/S are enclosed. Contractor shall have to quote the rates in figure & in words for each item of work, separately. In case of any ambiguity the rates quoted in words shall govern.

(ii) The rates quoted by the contractor shall be valid for entire period of the contract up to +/- 30% variation of total contract price, with variation to any extent in individual item of schedules. Rates beyond +/- 30 % variation in total contract price shall be decided mutually agreed upon.

2.1 PROJECT PARTICULARS

Name of the Project : 220/66 KV Switch Yard at existing 400 KV Asoj S/S

2.2 SYSTEM DATA

1. System Voltage and : 400 KV/220 KV/132 KV/66 KV/11 KV
2. System of Earthing : solidly earthed
3. Rated frequency : 50 Hz ± 5%
4. Voltage variation : 400 KV +5% -15%
   220 KV +5% - 15%
   132 KV +5% -15%
   66 KV +5% -15%
   11 KV + 10%
   415 V + 10% -15%
5. Three phase symmetrical : 220 KV – 40 KA 3 sec.
   Short circuit level for : 66 KV - 31.5 KA 3 sec.
   Selection of equipment
6. Control voltage : 220 V DC with +10%
   Variation (from battery)
   415 V 3 phase AC from ACDB
   Substation auxiliary panel. (+10% - 15%)  
7. Short Time Current Rating
   * For 400V : 40 KA for 3 Sec.
   * For 220KV : 40 KA for 3 Sec.
   * For 66 KV : 31.5 KA for 3 Sec
   For 11KV & 415 V switchgear : Not applicable.
8. Seismic Zone : Zone -3
9. Symmetrical Short circuit level for the purpose of earthing design
   : 40KA for 0.5 Sec.
3.0 Bidding Costs
   All costs/expenses in the preparation and submission of the Bid (including any post Bid
discussions/presentations) shall be fully borne by the Bidder. Owner will not be
responsible/ liable for these costs irrespective of the course and conclusion of this
Bidding.
4.0 BID DOCUMENTS
   Details of Documents
   The following Bid documents apart from Invitation to Bid detail the material and
equipment specifications/characteristics, the bidding procedures and the terms &
conditions of contract:
   a. General Conditions of Contract (GCC-Part I)
   b. Erection Conditions of Contract (ECC-Part I)
   c. Special Conditions of Contract (SCC-Part I)
   d. Technical Specifications (TSP-Part II – Electrical)
   e. Bid Form and Price Schedules (BF/PS-Part III)
5.0 Knowing the Bid Documents
   5.1 Every intending Bidder is to examine and understand all instructions, forms, terms,
   conditions and specifications in the Bid Documents and fully know himself all the
   conditions and contents therein, which may in any manner, affect the scope & content
   of work and the costs thereof. Submission of a Bid not substantially responsive to the
   Bid Document in all respects and/or failure to furnish all information required by the Bid
   Document may entail rejection of the Bid at the Bidder’s risk.
6.0 Clarifications on Bid Documents
   6.1 In case an intending Bidder finds any discrepancy or omission in the documents and
   specifications or is in doubt as to the true meaning of any part, he shall make a request,
in writing not later than one week before the date of submission of bid, to the owner in
triplicate. The owner will issue explanations, interpretations and clarifications as
deemed fit in writing as a response to this request. On receipt of such
   interpretations/clarifications, the Bidder may submit his Bid within the date and time
stipulated in the Bid invitation, All such explanations, interpretations and clarifications
   from the Owner shall be deemed as part of Bid Documents and shall invariably
accompany the Bidder’s proposal.
   6.2 Any verbal/telephonic clarifications and information given by the Owner or his employee
(s) or his representative(s) will not in anyway be binding on the Owner.
7.0 Amendment of bidding document:
   7.1 At any time prior to the deadline for submission of Bids the Owner may, for any reason,
whether at his own initiative or in response to a clarification requested by the intending
Bidder, modify the Bidding Document with amendment(s).
7.2 The amendment will be notified in writing or Fax/web site to all intending Bidders who have received the Bidding Document at the address contained in the letter of request for issue of Bidding document from the Bidders. Owner will bear no responsibility or liability arising out of non-receipt of the same in time or otherwise.

7.3 In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Owner may, at his discretion, extend the deadline for the submission of bids.

7.4 Such amendments, clarifications etc. shall be binding on bidders and will be given due consideration by the Bidders while they submit their bids and shall invariably enclose such documents as a part of the bid.

8.0 PREPARATION OF BIDS

Language Of Bid:

8.1 The Bid prepared by the Bidder and all correspondence and documents relating to the Bid, exchanged by the Bidder and the Owner, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation of its pertinent passages. Failure to comply with this may disqualify a bid. For purposes of interpretation of the bid, the English translation shall govern.

8.2 Bid Format

Bidders have to make the Bid in the formats furnished with this Document, verbatim without adding any printed/typewritten text of their own.

9.0 Local Conditions:

9.1 It will be imperative on each Bidder to fully inform himself of all local conditions and factors which may have any effect on the execution of the Contract covered under these documents and specifications. The Owner shall not entertain any request for clarifications from the bidders, regarding such local conditions.

9.2 It must be understood and agreed that such factors have properly been investigated and considered while submitting the proposals. No claim for financial adjustment to the Contract awarded under these specifications and documents will be entertained by the owner. Neither any change in the time schedule of the Contract nor any financial adjustments arising thereof shall be permitted by the Owner, which are based on the lack of such clear information or its effect on the cost of the works to the Bidder.

10.0 Documents comprising the Bid:

10.1 The Bidder shall complete the Bid form inclusive of Price Schedules, Technical Data Requirements etc. furnished in the Bidding Documents, indicating, for the goods to be supplied and services to be rendered, a brief description of goods and services, quantity and price.

10.2 The Bidder shall also submit documentary evidence to establish that the Bidder meets the Qualification Requirements as detailed in Special Conditions of Contract and GCC.

10.2.1 All Tender Documents/ formats are to be returned completed in all respects and signed by the Company Authorized Signatory wherever specified.

All Bid documents duly signed & sealed shall be submitted with technical bid.

10.4 The Bid Guarantee shall be furnished in separate cover in accordance with clause at GCC.
11.0 **Bid Price:**

11.1 The Bidder shall indicate, in the appropriate price schedules, enclosed in bid proposal sheets, the unit prices inclusive of duties and taxes of the goods, the price for erection, testing and commissioning, structural works and other services it proposes to furnish under the contract, along with the total bid price. The details of taxes and duties in case of direct transaction materials between the bidder and owner only shall be clearly indicated for each item in the prescribed format of price bid.

11.2 Detailed break up, covering all the price components of unit prices as well as total bid price, as stipulated in the appropriate price schedules of bid proposal sheet shall be provided by the bidder. This break up shall be entered separately in the following manner:-

A) For all goods offered:

i. The price of the goods quoted ex-factory/ex-works/ex-warehouse as applicable, inclusive of all duties, taxes and levies paid or payable on components, sub-assemblies and raw materials.

ii. Sales tax, VAT, excise duty, which will be payable by, the owner on the goods if this contract is awarded.

iii. Inland transportation charges including handling charges and other costs involving to delivery of the goods to their final destination, & insurance charges.

iv. The cost of erection, testing and commissioning & service Tax as well as associated, structural works.

11.3 The bidder’s separation of price components in accordance with above clause No: 11.2 will be solely for the purpose of the facilitating the comparison of Bids by the owner, for contract price amendment due to quantity variation and for on account payments (in case of award) and shall not in any way limit the Owner's rights.

11.4 **The Bidder shall specifically note that the Tenders are invited on item rate base.**

12.0 **Bid Security / EMD:**

12.1 The bidder shall furnish, as a part of its bid EMD, bid security for an amount of one percent of estimated cost to be paid as under:

a) In the form of crossed DD drawn in favor of Gujarat Energy Transmission Corporation Limited payable at Vadodara.

   As the estimated cost for this Tender is more than Rs. 100 lacs, the EMD is payable as under:

   50 % of EMD by DD in favour of Gujarat Energy Transmission Corporation Ltd. on any Scheduled Bank in Vadodara. Balance 50 % by Bank Guarantee from any Nationalized Bank/scheduled Bank in the format provided herein.

b) Payment by Cheque/Coop Bank Guarantee/ Company Guarantee is not permissible

12.2 The bid security is required to protect the owner against the risk of Bidder’s conduct, which would warrant the guarantee forfeiture, pursuant to relevant para elsewhere The bid guarantee shall be made payable to the Owner without any condition whatsoever.

12.3 Any bid not secured in accordance with above will be rejected by the Owner as non-responsive. No exemptions are made in the furnishing of the security.
12.4 Unsuccessful Bidder’s bid security/EMD will be returned/refunded on finalization of tender or three months from the date of submission of tender whichever is later.

12.5 The successful bidders, Bid Security will be discharged upon, furnishing the contract performance guarantee

12.6 The bid guarantee may be forfeited.
   a) If a Bidder withdraws its bid during the period of bid validity specified by the bidder on the bid Form:
   b) If a bidder refuses to accept the contract or fails to commence the works (including supplies within thirty days of letter of award of contract)

13.0 Format of Bid:
13.1 The Bidder shall prepare two copies of the bid, clearly marking each “Original bid” and “Copy of Bid”, as appropriate. In the event of any discrepancy between them the original shall govern. All the documents furnished in original document shall be furnished in other copies of Bids.

13.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized by the Bidder to sign the Contract. The letter of authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

13.3 The Bidders must submit the qualifying data in one original and one duplicate copy as required in this Instructions to Bidders in separate envelopes sealed and enclosed in the envelope submitting proposals, super scribed as under:

QUALIFYING DATA FOR THE SUPPLY AND ERECTION OF
TENDER NO: GETCO/CE(P)/EE(R&M)/DRM1/Tender EPC/2012/Asoj

The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

13.4 Bids shall be submitted as under:
   Cover-I Earnest Money Deposit (Bid-Security), as per relevant clause of SCC duly signed and Contractor’s covering letter. Tender fee details (as per tender notice)
   Cover-II Qualifying Requirements. (Electrical)
       Separate covers/files for electrical data shall be kept in one cover.
   Cover-III Technical Bid (Electrical)
       Must contain conditions and schedules of Part-III without prices and Technical Data Requirement Sheets (Cover I, II & III will be collectively called Technical Bid).
       All Bid documents duly signed & sealed shall be submitted with technical bid.
   Cover-IV Price Bid (Electrical)
       Price offer as per Part-IV (with six hard copies and one soft copy (CD ROM) of Price schedules in Excel)

14.0 Signature Of Bids:
14.1 The bid must contain the name, residence and place of business of the person or persons making the bid and must be signed and sealed by the Bidder with his usual
14.2 Bid by a partnership must be furnished with full names of all partners and be signed with the partnership name, followed by the signature(s) and designation(s) or the authorized partner(s) or other authorized representative(s).

14.3 Bids by Corporation/Company must be signed with the legal name of the Corporation/Company by the President/Managing Director or by the Secretary or other person or persons authorized to bid on behalf of such Corporation/Company in the matter.

14.4 A bid by a person who affixes to his signature the word ‘President’, ‘Managing Director’, ‘Secretary’, ‘Agent’ or other designation without disclosing his Principal will be rejected.

14.5 If it is found that two or more persons who are connected with one another either financially or as a principal and agent have bid under different names without disclosing their connection then such bids will be liable for rejection. Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with the bid.

14.6 The Bidder’s name stated on the proposal shall be the exact legal name of the firm.

14.7 Bids not conforming to the above requirements of signing may be disqualified and EMD forfeited.

15.0 Sealing and marking of bids:

15.1 Cover-I 1. Bid No.

2. Due date for opening

3. Reference of tender fee & earnest money deposit

Cover-II 1. Bid No.

2. Due date for opening.

3. Qualifying Requirements (Electrical & civil).

Cover-III 1. Bid No.

2. Due date for opening

3. Technical bid (Electrical)& reference and required certificates

Cover-IV 1. Bid No.


Cover-I, Cover-II, Cover-III & Cover IV shall be individually sealed and super scribed as indicated above and should be enclosed in the main cover duly sealed and super scribed as Tender for ……………………………………… against Bid No……………… due on…………….. containing Cover-I, Cover-II, Cover-III & Cover of this tender.

The original Bid and accompanying documents clearly marked “Original” plus one copy for Cover I, II & III and six copies for Cover IV shall be submitted by the Bidder at the date, time and place specified. In the event of any discrepancy between the original and the copies, the original shall govern.
The Bid shall be submitted by RPAD or through speed post services at the Office of the CE (Project) GETCO. Bids submitted should be posted with due allowance for any postal delay. The Bids received after the Due Date and Time of opening are liable to be rejected. Telegraphic/Telex/Fax/e-mail Bids shall not be entertained.

15.2 The Bidders shall seal the original and each copy of the bid in an inner and an outer envelope, duly marking the envelopes as “original” and “copy”.

15.3 a. Addressed to the Owner at the following address:

The Chief Engineer (Projects) - GETCO
8th Floor, Sardar Patel Vidyut Bhavan, Race Course,
Baroda. 390007

b. Bear the name of package bid enquiry number, name of the work and the words."DO NOT OPEN BEFORE……………….

15.4 The inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared “late” or “rejected”.

15.5 If the outer envelope is not sealed and marked as required by Clause No: 15.1 the Owner will assume no responsibility for the bid’s misplacement or premature opening.

15.6 The Bid Security conditions must be submitted in a separate sealed envelope.

16.0 Deadline for submission of bids:

16.1 Bids submitted by telex/telegram will not be accepted. No request from any Bidder to the Owner to collect the proposals from airlines, cargo agent etc. shall be entertained by the Owner.

16.2 Bids must be received by the Owner at the address specified under Clause No: 15.3, not later than the time & date mentioned in the Invitation to Bid.

16.3 The Owner may, at its discretion, extend this deadline for the submission of bids by amending the Bidding Document in which case all rights and obligations on the Owner and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17.0 Late Bids

17.1 Any bid received by the Owner after the time and date fixed or extended for submission of bids prescribed by the Owner, will be rejected and not considered for evaluation.

18.0 Modification and withdrawal of bids:

18.1 The Bidder may modify or withdraw its bid after the bid’s submission provided that written notice of the modification or withdrawal is received by the Owner prior to the deadline prescribed for submission of bids.

18.2 The Bidder’s modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of clause No: 15.0. The envelope should clearly indicate whether the modification is for the Technical bid or the Price bid. No bid modifications notice by Telex/Grams/Fax shall be entertained by the Owner.

18.3 No bid shall be modified in any manner, whatsoever subsequent to the deadline for submission of bids.
18.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal/modification of a bid during this interval may result in the Bidder’s forfeiture of its bid security.

19.0 Information required with the proposal:

19.1 The bids must clearly indicate the name of the manufacturer, the type and/or model of each principal item of equipment proposed to be furnished and erected. The bid should also contain drawings and descriptive materials indicating general dimensions, materials from which the parts are manufactured, principles of operation, the extent of pre-assembly involved, major construction equipment proposed to be deployed, method of erection and the proposed erection organizational structure.

19.2 The above information shall be provided by the Bidder in the form of separate sheets, drawings, enclosed etc. in two copies along with soft copy.

19.3 Any bid not containing sufficient descriptive material to describe accurately the equipment proposed may be treated as incomplete and hence rejected. Such descriptive materials and drawings submitted by the Bidder will be retained by the Owner. Any major departure from these drawings and descriptive material submitted will not be permitted during the execution of the Contract without specific written permission of the Owner.

19.4 Oral statements made by the Bidder at any time regarding quality, quantity or arrangement of the equipment or any other matter will not be considered.

19.5 Standard catalogue pages and other documents of the Bidder may be used in the bid to provide additional information and data as deemed necessary by the Bidder.

19.6 The Bidder, along with his Proposal, shall submit a list of recommended erection equipment and materials which will be required for the purpose of erection of equipment and materials supplied under the Contract.

19.7 In case the ‘Proposal’ information contradicts specification requirements, the specification requirements will govern, unless otherwise brought out clearly in the technical commercial deviation schedule.

BID OPENING AND EVALUATION

20.0 Opening of bids by owner:

20.1 The Owner will open the bids in the presence of Bidder’s representatives who choose to attend on the date and time mentioned for opening of bids in the Invitation to Bid or in case any extension has been given thereto, on the extended bid opening date and time notified to all the Bidders who have purchased the bidding document. The Bidder’s representatives who are present shall sign a register evidencing their attendance.

20.2 The Bidder’s names, Technical modifications, Bid withdrawal and such other details as the Owner, at his discretion may consider appropriate, will be announced in the Technical Bid Opening.

20.3 The price bids of all the “Techno-Commercial” Responsive Bidders shall be opened in the presence of representatives (up to two per firm) of such bidders who choose to be present. The date & time of opening the Price Bid shall be intimated to all such qualified bidders by Fax/Telex/E mail/letter etc, at least one week in advance besides inviting final price bid if found appropriate after evaluation of Technical bids.
20.4 The Bidder’s name, Bid Price, all discounts if any, modifications in the Price Bid and any such other details as the Owner, at his discretion, may consider appropriate, will be announced/ furnished in the Price Bid Opening.

20.5 No electronic recording/transmitting devices will be permitted during Bid opening.

21.0 Purpose of evaluation of bids:

21.1 The Bids received/accepted/opened will be evaluated by the Owner to ascertain the technical responsiveness of the bid for the complete scope of the proposal, as covered under these specifications and documents. All technically responsive bids shall then be examined to determine the lowest evaluated commercially and technically responsive bids.

22.0 Policy for bids under consideration:

22.1 Bids shall be deemed to be under consideration immediately after opening of Technical Bid and until such time official intimation of award/rejection is made by the Owner to the Bidders. While the Bids are under consideration, Bidders and/or their representatives and other interested parties are advised to refrain from contacting by any means, the owner and/or his employee’s representatives on the matters related to Bids under consideration.

22.2 Clarification of bids:

To assist in the examination evaluation and comparison of Bids the owner may on his own ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

23.0 Preliminary Examination:

23.1 The Owner will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

23.2 Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the latter shall prevail and the total bid amount will be corrected accordingly. If there is a discrepancy between words and figures, the amount advantageous to the Owner will prevail. If the Bidder does not accept the correction of the errors as above, his Bid will be rejected and the amount of Bid Security will be forfeited. The Bidder should ensure that the prices furnished in various price schedules are consistent with each other. In the case of any inconsistency in the prices furnished in the specified prices schedules to be identified in Bid Form for this purpose, the Owner shall be entitled to consider the highest price for the purpose of evaluation and for the purpose of award of Contract use the lowest of the prices in these schedules.

23.3 Prior to the detailed evaluation, the Owner will determine the substantial responsiveness of each bid to the Bidding Document. For purpose of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Document without material deviations. A material deviation is one which affects in any way the prices, quality, quantity or delivery period of the equipment, completion of works or which limits in any way the responsibilities or liabilities of the Bidder of any right of the Owner as required in these specifications and documents. The Owner’s determination of a bid’s responsiveness shall be based on the contents of the bid itself without recourse to extrinsic evidence.
23.4 A bid determined as not substantially responsive will be rejected by the Owner and may not subsequently be made responsive by the Bidder by correction of non-conformity.

23.5 The Owner may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

24.0 **Award Criteria**

24.1 The owner will award the contract to the successful Bidder, whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, providing further that the Bidder is determined to be qualified to perform the contract satisfactorily. The Owner shall be the sole judge in this regard.

24.2 In case of award of Contract on a bidder there shall be separate contracts for supply of goods and for the erection & services works in substations.

24.3 Further, the Owner reserves the right to award separate contracts to two or more parties in line with the terms and conditions specified in the accompanying Technical Specifications.

25.0 **Owner’s right to accept any bid and to reject any or all bids:**

25.1 The Owner reserves the right to accept or reject any bid, and to annual the bidding process and reject all bids at time prior to award of contract, any without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Owner’s action.

26.0 **Notification of award:**

26.1 Prior to the expiration of the period of bid validity and extended validity period, if any, the Owner will notify the successful Bidder in writing by registered letter or cable or telex or FAX, to be confirmed in writing by registered letter, that its bid has been accepted.

26.2 The notification of award will constitute the formation of the Contract.

26.3 Upon the successful Bidder’s furnishing of performance guarantee pursuant to relevant clause No: 36 & 38, the Owner will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to Clause No: 12.00.

27.0 **Signing of contract:**

27.1 At the same time as the Owner notifies the successful Bidder that his bid has been accepted, the Owner will send the Bidder the detailed of Award, incorporating all agreements between the parties.

27.2 Within 15 days of receipt of the detailed of Award, the successful bidder shall sign the same with date and return it to the Owner.

27.3 The Bidder will prepare the Contract Agreement as per the proforma prescribed and the same will be signed within 30 (Thirty) days of notification of Award.

28.0 **DEFINITION OF TERMS**

28.1 The ‘Contract’ means the agreement entered into between the Owner and the Contractor as per the Contract Agreement signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
28.2 ‘Owner’ shall mean the Gujarat Energy Transmission Corporation Ltd. Vadodara or any of its subsidiaries and shall include its legal representatives, successors and assigns.

28.3 ‘Contractor’ or ‘Manufacturer’ shall mean the Bidder whose bid is accepted by the Owner for the award of the Works and shall include such successful Bidder’s legal representatives, successors and permitted assigns.

28.4 ‘Sub-Contractor’ shall mean the person named in the Contract for any part of the Works or any person to whom any part of the Contract has been sublet by the Contractor with the consent in writing of the Engineer and will include the legal representatives, successors and permitted assigns of such person.

28.5 ‘Engineer’ shall mean the officer appointed in writing by the Owner to act as Engineer from time to time for the purpose of the Contract.

28.6 The terms ‘Equipment’, ‘Stores’ and ‘Materials’ shall mean and include equipment, stores and materials to be provided by the Contractor under the Contract.

28.7 ‘Works’ shall mean and include the furnishing of equipment, labour and services, as per the Specifications and complete erection, testing and putting into satisfactory operation including all transportation, handling, unloading and storage at the Site as defined in the Contract.

28.8 ‘Specifications’ shall mean the Specifications and Bidding Document forming a part of the Contract and such other schedules and drawings as may be mutually agreed upon.

28.9 ‘Site’ shall mean and include the land and other places on, into or through which the works and the related facilities are to be erected or installed and any adjacent land, paths, street or reservoir which may be allocated or used by the Owner or Contractor in the performance of the Contract.

28.10 The term ‘Contract Price’ shall mean the Firm price quoted by the Contractor in his bid with additions and/or deletions as may be agreed and incorporated in the Letter of Award and the contract agreement for the entire scope of the works.

28.11 The term ‘Equipment Portion’ of the Contract price shall mean the ex-works value of the equipment/Materials supplied include structures, town materials insulators, conducting etc.

28.12 The term ‘Erection Portion’ of the Contract price shall mean the value of field activities of the works including erection, testing and putting into satisfactory operation including successful completion of performance and guarantee tests to be performed at Site by the Contractor including cost of insurances.

28.13 ‘Manufacturer’s Works’ or ‘Contractor’s Works’, shall mean the place of work used by the manufacturer, the Contractor, their collaborators/associates or Sub-Contractors for the performance of the Contract.

28.16 Site Engineer ‘Inspector’ shall mean the Owner owner’s Engineers or any person nominated by the time to inspect the equipment; stores or Works under the Contract and/or the duly authorized representative of the Owner.

28.17 ‘Notice of Award of Contract’/‘Letter of Award’/’Telex of Award’ shall mean the official notice issued by the Owner notifying the Contractor that his bid has been accepted.

28.18 ‘Order’ shall mean the official letter issued by the Owner informing the acceptance of the bid.

28.19 ‘Date of Contract’ shall mean the date on which Notice of Award of Contract/Letter of Award has been issued.

28.20 ‘Month’ shall mean the calendar month. ‘Day’ or ‘Days’ unless herein otherwise expressly defined shall mean calendar day or days of 24 hours each.

28.21 A ‘Week’ shall mean continuous period of seven (7) days.

28.22 ‘Writing’ shall include any manuscript, type written or printed statement, under or over signature and/or seal as the case may be.

‘Accepted’, ‘Permitted’, or words and phrases of like importance are used the approval, judgment, direction etc. is understood to be a function of the Owner/Engineer.

28.24 Test on completion shall mean such tests as prescribed in the Contract to be performed by the Contractor before the work is taken over by the Owner.

28.25 ‘Performance and Guarantee Tests’, shall mean all operational checks and tests required to determine and demonstrate capacity, efficiency, and operating characteristics as specified in the Contract Documents.

28.26 The term ‘Final Acceptance’/‘Taking Over’ shall mean the Owner’s written acceptance of the Works performed under the Contract, after successful commissioning/completion of Performance and Guarantee Tests, as specified in the accompanying Technical Specifications or otherwise agreed in the Contract.

28.27 ‘Guarantee Period’/‘Maintenance Period’ shall mean the period during which the Contractor shall remain liable for repair or replacement of any defective part of the works performed under the Contract.

28.28 ‘Latent Defects’ shall mean such defects caused by faulty designs, material or workman- ship which cannot be detected during inspection, testing etc, based on the technology available for carrying out such tests.

28.29 ‘Drawing’, ‘Plans, shall mean all:
   a) Drawings furnished by the Owner/Consultant as a basis of Bid/Proposals.
   b) Supplementary drawings furnished by the Owner/Consultant to clarify and to define in greater detail the intent of the Contract.
   c) Drawings submitted by the Contractor with his bid provided such drawings are acceptable to the Owner/Consultant.
   d) Drawings furnished by the Owner/Consultant to the Contractor during the progress of the work; and
   e) Engineering data and drawings submitted by the Contractor during the progress of the work provided such drawings are acceptable to the Engineer/Owner.

28.30 ‘Codes’ shall mean the following including the latest amendments and/or replacements, if any:
   a) Indian Electricity Act, 1905 and Rules and Regulations made there under.
   b) Electricity Act 2003 and Rules & Regulations made there under.
   c) Indian Factory Act, 1948 and Rules and Regulations made there under.
   d) Indian Explosives Act, 1884 and Rules and Regulations made there under.
   e) Indian Petroleum Act, 1934 and Rules and Regulations made there under.
   f) A.S.M.E. Test Codes.
   g) A.I.E.E. Test Codes.
   h) American Society of Materials Testing Codes.
   i) Standards of the Indian Standards Institution.
   j) Other Internationally approved standards and/or rules and regulations touching the subject matter of the Contract.

28.31 Words imparting the singular only shall also include the plural and vice versa where the context so requires.

28.32 Words imparting ‘Person’ shall include firms, companies, corporations and associations or bodies of individuals, whether incorporated or not.

28.33 Terms and expressions not herein defined shall have the same meaning as are assigned to them in the Indian Sale of Goods Act (1930), failing that in the Indian Contract Act (1872) and failing that in the General Clauses Act (1897) including amendments thereof, if any.

Or

In addition to the above the following definitions shall also apply.
   a) ‘All equipment and materials’ to be supplied shall also mean ‘Goods’.
   b) ‘Constructed’ shall also mean ‘erected and installed’.

29.0 APPLICATION

These General Conditions shall apply to the extent that they are not superceded by provisions in other parts of the Contract.
30.0 STANDARDS
The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the goods and such standards shall be the latest issued by the concerned institution.

31.0 LANGUAGE AND MEASURES
All documents pertaining to the Contract including specifications, schedules, notices, correspondences, operating and maintenance instructions, drawings or any other writing shall be written in English language. The Metric System of measurement shall be used exclusively in the Contract.

32.0 Price Basis:

32.1 The Price shall be quoted on firm basis.

32.2 The Price quoted by the bidder shall remain fixed during the bidder's performance of the contract and shall not be subject to variation on any account or for change in quantity.

33.0 Taxes and Duties:

33.1 Bought out items from vendors/sub-suppliers:
All levies, duties, sales tax VAT etc. payable on equipment/material components, sub-assemblies, raw materials and any other items used for the bidder's consumption or dispatched directly to the owner from its sub-supplier shall be included in the Bid price and any such taxes, duties levies additionally payable shall be to bidders account and no separate claim on this behalf shall be entertained by the owner.

33.2 Material supplied by the bidder from his own manufacturing units to the owner:
Sales tax, but not surcharge in lieu of sales tax, other taxes and other levies and duties including excise duty, custom duty solely in respect of the direct transaction between the owner and the contractor under this contract, if any, shall be included in the bid price. These shall also be indicated separately wherever applicable as mentioned.

33.2.1 ‘C’ form will be issued as per ‘CST’ Act for supply Items.
33.2.2 GETCO VAT/CST Registration Nos. are as under;
1. TIN(VAT) No. 24190102398 Dtd. 27.07.04
2. CST NO. 24690102398 Dtd. 27.07.08

33.3 Works contract-tax:
The structural and architectural portion of the contract shall be treated as works contract Consequently, any sales tax payable on the cost of these items of supply under the works contract shall also be included by the bidder in his total bid price and the owner shall have no liability whatsoever in respect of such works contract tax. However, the owner will deduct works contract tax out of the supplier's bills as per statutory rules.

33.3 As regards the income Tax, surcharge on income tax and any other corporate tax, including service tax if any the owner shall not bear any tax liability whatsoever. The bidder shall be liable and responsible for payment of such taxes as attracted under the provisions of the law.

33.4 Notwithstanding the tax liabilities as per the above sub-clause 33.1 to 33.4 the owner shall have the right to make deduction at source from the amounts payable to the contractor in respect of Income Tax (on the cost of items of supply included in the works contract) as may be mandatory in terms of the law. The owner shall not bear any liability in this regard but shall issue necessary certificate in respect of such deduction made.
33.5 Whenever concessional rate of Excise Duty/Sales Taxis indicated by the bidders, it shall be confirmed whether any increase in the rates that becomes applicable during the performance of the contract would be absorbed by the supplier. Bidder shall note that in case of absence of such confirmation; the tenders will be evaluated taking into account the maximum rate of excise duty/sales tax applicable.

33.6 In case any tax or duty is newly introduced by the Government applicable for this contract with effect from the next day of the date submission of the bid and if the contractor is required to pay additional tax or duty, then the owner shall reimburse the contractor the additional tax or duty so paid by the contractor against submission by the contractor of documentary evidence to the satisfaction of the owner. This provision will not be applicable to transaction between the contractor and his sub-suppliers, subcontractors for raw materials, for bought out items etc and will be applicable only to the direct transactions between the contractors for the materials supplied from his own manufacturing units. Besides the said statutory variation, no other statutory variation shall be payable by the owner.

33.7 The owner's liability for all taxes and duties under the contract shall be limited to those indicated by the Bidder in the Bid Proposal Sheets, subject to the statutory variations and variations as per above Clause. If the cost to the Contractor during the performance of the ‘Contract’ shall be increased or reduced by reasons of the making, passing or promulgation of any law after the date of submission of bid or by any order, regulation or bye-law having the force of law the amount of such increase or reduction shall be added to or deducted from the “Contract Price” as the case may be for direct transactions between contractor & owner, and not for bought out items. It is the Bidders responsibility to furnish details of taxes, duties, levies etc. applicable as on the date of submission of the bid.

33.8 No claim for any increase towards the statutory variation regarding enhancement of existing tax or duty or introduction of a new tax or duty applicable shall be entertained by the Owner during the extended period of contract, if any, provided the extension of the contract is required by causes not attributable to the GETCO. However, the decrease in any taxes/duties shall be passed on to GETCO.

33.9 The provision of statutory variation regarding enhancement of existing tax or duty or introduction of a new tax or duty will be applicable only to the direct transaction between the contractor and the owner.

33.10 Before quoting, the bidder may ascertain from the concerned tax authorities of Government the applicability of Work Contract Tax. Service Tax, etc. in respect of this work and include the same in the quoted price. No separate claim in this regard will be entertained by the Owner, as it is the responsibility of the Bidder to pay all these taxes.

34.0 TAXES, PERMITS & LICENCES
The Contractor shall be liable and pay all non-Indian taxes, duties, levies lawfully assessed against the Owner or the Contractor in pursuance of the Contract. In addition the Contractor shall be responsible for payment of all Indian duties, levies and taxes lawfully assessed against the Contractor for his personal income & property only.

35.0 Price Inclusions (including Taxes & Duties):

35.1 EXCISE DUTY

35.1.1 100% value of Excise duty on equipments and substation materials shall be reimbursed on submission of documents of excise duty paid by the Contractor at the prevailing or offered applicable rate, whichever is lower. However Chartered Accountants' certificate (along with last advance bill) that excise duty as paid by the Contractor and claimed from GETCO has not been refunded nor refund claim is pending with Excise department. Further, Contractor have to furnish an undertaking to GETCO that in any event, if any refund of excise duty either in full or part is received by Contractor in respect of the material supplied to GETCO against tender under reference the same shall be passed on to the GETCO without any further claim to that effect from GETCO.
35.1.2 The price should be quoted **Exclusive** of excise duty and **in single slab only**. Multiple excise duty slabs based on turn over/production capacity should not be quoted and if quoted, then the highest slab for evaluations will be considered. If the Excise duty is based on the suppliers turnover then in that event all the Excise duty beyond the Excise duty quoted by the Tenderer will have to be borne by the Tenderer itself. The excise duty rate for the quoted quantity should be **stated extra**. The offers having price INCLUSIVE OF EXCISE DUTY is likely to be rejected if the rate of excise duty is not mentioned clearly. The Corporation may at its discretion consider such offer with presumption of highest rate of excise duty prevailing when the price quoted is inclusive of Excise Duty.

Please clarify whether Excise Duty is chargeable or not and the ceiling for the same must be clearly specified to enable us to evaluate suppliers offer. In case, Govt. revises the rate of excise duty during the tenure of the contract, the provision of Corporation’s statutory variation clause shall apply.

35.2 The prices quoted shall be all inclusive of freight, transportation, loading, –unloading & stacking at site of materials supplied by Contractor as well as owner supplied if any.

35.3 No extra payment toward any type of templates and erection tools /materials will be made.

35.4 **SALES TAX/VAT** :- The prices should be quoted inclusive of sales tax/ VAT CST or VAT to be indicated. The rate of tax (CST or VAT ) should clearly be indicated. However, in the breakup of end cost, sales tax/VAT has to be shown separately. The stores are required for consumption in generation, transmission and distribution of electrical energy and as such Central “C” form will be issued at the time of payment of bills, you are requested to quote your sales tax registration Number / VAT Registration No and date in all the bills.

35.5 As per the Government of Gujarat directives, while evaluating your offer incidence of sales tax will not be considered.

35.6 **Sale Tax on Works Contract:**

*Works contract tax is a liability of the bidder and if applicable, the same shall be borne by the bidder.*

In case of contract value exceeding Rs. one crore, tax shall be deducted at source at 2% of the net value payable as per Gujarat VAT Act 2003 amended up to date. However, if contractor desires payment without deduction of 2% TDS, he has to obtain and produce certificate from competent authority of commercial tax department to that effect.

35.7 **E.D. / ST amount ceiling:**

Bidder shall also confirm that the total claim of excise duty and sales tax/VAT shall not exceed the amount indicated in the price bid.

35.8 **Service Tax:**

*Service Tax as applicable presently to this Contract will be included in the price; however the percent of Tax applied on this account shall be specifically mentioned in the bid.* If the tax is not eventually payable or there is a difference between the rate mentioned in the bid & service tax actually payable then such amount or difference in payment amount shall be deducted from the actual amount payable towards that item in the price schedule.

35.9 **Statutory Variations:**

Any statutory increase or decrease in the taxes and duties subsequent to offer if it takes place within the original contractual delivery date will be to the GETCO’s account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to be passed on to the GETCO. **However such statutory variation is applicable to only direct supply or services.**
No statutory variation shall be admitted, if the excise duty becomes payable because of exceeding the prescribed limits for turn over or for any such other reasons..

35.10 **Income Tax**

Income-tax at source at the prevailing rate will be deducted from bills in accordance with the provision of Income-Tax Laws and to that effect a certificate will be issued to the contractor.

**36.0 CONTRACT PERFORMANCE GUARANTEE**

36.1 As a contract performance security, the successful bidder, to whom the work is awarded, shall be required to furnish a performance guarantee as per clause No. 38 in form of Bank guarantee from a Public Sector Indian bank/Scheduled, Commercial Bank in the form to be furnished and it shall guarantee the faithful performance of the Contract in accordance with the terms and conditions specified in these documents and specifications.

36.2 The Performance Guarantee shall cover additionally the following guarantees to the Owner:

a) The successful Bidder guarantees the successful and satisfactory operation of the equipment furnished and erected under the Contract, as per the specifications and documents.

b) The successful Bidder further guarantees that the equipment provided by him/his sub-vendors and installed by him shall be free from all defects in design, material and workmanship and shall upon written notice from the Owner fully remedy free of expenses to the Owner such defects as developed under the normal use of the said equipment within the period of guarantee specified in the relevant clause of the General Terms and Conditions in the Part-I.

36.3 The Contract Performance Guarantee is intended to secure the performance of the entire contract. However, it is not to be construed as limiting the damages under clause entitled “Equipment Performance Guarantee” in Technical Specifications, Part-II and damages stipulated in other clauses in the Bid documents.

36.4 The Contract performance guarantee will be discharged without any interest on successful completion of order and only after the performance guarantee condition is fulfilled. The Contractor shall furnish Contract Performance Guarantee(s) for the proper fulfillment of the Contract in the prescribed form within fifteen(15) days of “Notice of Award of Contract”. The performance guarantee(s) shall be as per terms prescribed.

**GUARANTEES & LIABILITIES**

**37.0 GUARANTEE**

37.1 The Contractor shall warrant that the whole project, in accordance with the Contract documents and free from defects in material/equipment and workmanship for a period of twenty four (24) calendar months commencing immediately upon the satisfactory commissioning of the project and issuance of Taking Over Certificate (TOC). The Contractor’s liability shall be limited to the replacement of any defective parts in the equipment of his own manufacture or those of his Sub-Contractors under normal use and arising solely from faulty design, materials and/or workmanship provided always that such defective parts are repairable at the site and are not in meantime essential in the commercial use of the equipment. Such replaced/defective parts shall be returned to the Contractor unless otherwise arranged. No repairs or replacement shall normally be carried out by the Engineer when the equipment is under the supervision of the Contractor’s Supervisory Engineer.

37.2 In the event of any emergency where in the judgment of the Engineer, delay would cause serious loss or damages, repairs or adjustment may be made by the Engineer or a third party chosen by the Engineer without advance notice to the Contractor and the cost of such work shall be paid by the Contractor. In the event such action is taken by the Engineer, the Contractor will be notified promptly and he shall assist wherever possible in making necessary corrections. This shall not relieve the Contractor of his liabilities under the terms and conditions of the Contract.
37.3 If it becomes necessary for the Contractor to replace or renew any defective portions of the works the provision of this clause shall apply to portions of the works so replaced or renewed until the expiry of twelve (12) months from the date of such replacement or renewal. If any defects are not remedied within a reasonable time, the Engineer may proceed to do the work at the Contractor's risk and cost but without prejudice to any other rights which the Owner may have against the Contractor in respect of such defects.

37.4 The repaired or new parts will be furnished and erected free of cost by the Contractor. If any repair is carried out on his behalf at the site, the Contractor shall bear the cost of such repairs.

37.5 The cost of any special or general overhaul rendered necessary during the maintenance period due to defects in the equipment or defective work carried out by the Contractor, the same shall be borne by the Contractor.

37.6 The acceptance of the equipment by the Engineer shall in no way relieve the Contractor of his obligations under this clause.

37.7 In the case of those defective parts, which are not repairable at site but are essential for the commercial operation of the equipment, the Contractor and the Engineer shall mutually agree to a programme of replacement or renewal, which will minimize interruption to the maximum extent in the operation of the equipment.

37.8 At the end of the guarantee period, the Contractor's liability ceases except for latent defects. For latent defects, the Contractor's liability as mentioned in Clause Nos. 37.1 through 37.7 above, shall remain till the end of 5 years from the date of completion of the guarantee period.

In respect of goods supplied by Sub-Contractors to the Contractor where a longer guarantee is provided by such Sub-Contractor, the Owner shall be entitled to the benefits of such longer guarantee.

37.9 The provisions contained in this clause will not be applicable: a) If the Owner has not used the equipment according to generally approved industrial practice and in accordance with the conditions of operations specified and in accordance with operating manuals, if any. b)In cases of normal wear and tear of the parts to be specifically mentioned by the Contractor in the offer.

37.10 The Guarantee period for individual equipment / item indicated in the tender specification remains unchanged and shall have to be adhere to as indicated below.

220 KV 66KV CT & PT--You have to give assurance for trouble free and maintenance free performance for a period of 60 Months from the date of receipt of stores. During this period, the CTs/PTs shall be repaired/reconditioned/replaced free of cost immediately in case of any trouble.

38.0 Performance Guarantee:-

"The successful bidder shall have to submit the performance guarantee in the form of Bank Guarantee worth 10% of the total contract value (end cost) to cover the entire execution. The Performance Bank Guarantee (covering the execution of the contract) will be returned ONLY on successful commissioning & issuance of TOC including material reconciliation & as built drawings and on receipt of the Bank Guarantee towards Warranty worth 10% of the total contract value(end cost), which will be retained till completion of the Guarantee period.

These Bank Guarantees shall be applicable for all the bidders irrespective whether they are SSI/NSIC units."

The above performance guarantee, to be submitted by successful tenderer, towards execution period, is for the satisfactory execution of the contract.

Whereas the performance guarantee, to be submitted by successful tenderer, towards warranty, is for satisfactory performance of the materials which should be valid for 12/18/24/36/48/60 months from the date of commissioning OR 18/24/30/42/54/66 months from the last date of delivery of supply whichever is earlier OR whatever applicable as per technical specification.
If the full Performance Guarantee amount / BG is not paid / submitted within 30 (Thirty) days after the receipt of the order, then the order will be outrightly cancelled at the risk & cost of the Tenderer (at the discretion of the Corporation) and without entering into any correspondences and this will be binding on the Tenderer

39.0 Time Schedule:
39.1 The basic consideration and the essence of the Contract shall be strict adherence to the time schedule for performing the specified works.
39.2 The Owner's requirements of completion schedule for the Works are mentioned in the accompanying Special Conditions of Contract.
39.3 The completion schedule as stated in the special conditions of contract shall be one of the major factors in consideration of the bids.
39.4 The owner reserves the right to request for a change in the work schedule during pre-award discussions with successful bidder.
39.5 The successful bidder will be required to prepare detailed PERT Network/ detailed M.S. Project Bar chart and finalise the same with the owner as per the requirement of Clause no 40.0

40.0 TIME – THE ESSENCE OF CONTRACT

40.1 The time and the date of completion of the Contract as stipulated in the Contract by the Owner without or with modifications, if any, and so incorporated in the Letter of Award, shall be deemed to be the essence of the Contract. The Contractor shall so organize his resources and perform his work as to complete it not later than the date agreed to.

40.2 The Contractor shall submit a detailed PERT network/bar chart within the time frame agreed consisting of adequate number of activities covering various key phases of the work such as design, procurement, manufacturing, shipment and field erection activities within fifteen (15) days of the date of Notification of Award. This network shall also indicate the interface facilities to be provided by the Owner and the dates by which such facilities are needed. The Contractor shall discuss the network so submitted with the Owner and the agreed network shall form part of the Contract documents. During the performance of the Contract, if in the opinion of the Engineer, proper progress is not maintained, suitable changes shall be made in the Contractor's operations to ensure proper progress without any cost implication to the Owner. The interface facilities to be provided by the Owner in accordance with the agreed network shall also be reviewed while reviewing the progress of the Contractor.

40.3 Based on the above agreed network/bar chart fortnightly reports shall be submitted by the Contractor as directed by the Engineer.

40.4 Subsequent to the finalization of the network, the Contractor shall make available to the Engineer a detailed manufacturing programme in line with the agreed Contract network. Such manufacturing programme shall be reviewed, updated and submitted to the Engineer every month thereafter.

40.5 The above bar charts/manufacturing programme shall be compatible with the Owner's computer environment and furnished to the Owner on such media as may be desired by the Owner.

40.6 If the progress is found low, GETCO reserves the right to get the work executed through any other agency at the risk & cost of contractor without assigning any reason(s) and/or notice.

41.0 PENALTY FOR DELAY:

41.1 The tenderer should note that the completion time allowed for carrying out the work should be strictly observed. Any delay that may take place in supply and erection beyond Contractual period stated shall be subject to the penalty at the rate of ½ % of the total contract value per week or part there of, with a ceiling of 10 % of the total contract value.
41.2 The penalty will be deducted from bills payable either against this contract or from any Bank Guarantee or any other amount payable under any other contract with the GETCO.

41.3 Tenderer shall have to supply all materials to match with the erection activities.

41.4 If the Contractor fails to successfully complete the commissioning within the time fixed under the Contract, the Contractor shall pay to the Owner as penalty a sum specified for each specified period of delay.

41.5 Equipment and materials will be deemed to have been delivered only when all its components, parts are also delivered. If certain components are not delivered in time the equipment and materials will be considered as delayed until such time the missing parts are also delivered.

41.6 For the purpose of penalty, contractual obligation shall be completion of all the supply and erection contracts as per time schedule & value of these contracts shall be “total contract value” (Sum of all individual contract value) for the working of penalty in line with above relevant cl. No.41.1

42.0 DELAYS BY OWNER OR HIS AUTHORISED AGENTS

42.1 In case the Contractor’s performance is delayed due to any act of omission on the part of the Owner or his authorized agents, then the Contractor shall be given due extension of time for the completion of the Works, to the extent such omission on the part of the Owner has caused delay in the Contractor’s performance of the Contract.

Regarding reasonableness or otherwise of the extension of time, the decision of the Engineer shall be final.

42.2 In addition, the Contractor shall not be entitled to any claim whether demonstrable or reasonable compensation if such delays have resulted in any increase in cost

43.0 Presentation of Bills

43.1 For supply: Monthly Bills for supply items for 80% value i.e. Ex-Works price with 100% F&I and Taxes in original with one copy shall be submitted to Dy. CAO (Bills), at Corporate Office for passing and processing for payment at Corporate Office. One copy of such bill is to be submitted to Engineer in-charge i.e. concerned EE(Const) for their record & preparation of all relevant documents.

43.2 10% payment out of balance 20% shall be released on completion of Sub –Station work, handing over and acceptance by the Site Engineers in charge after rectification work if any and settlement of material account according to actual quantity utilized for completion of work. Bill for this payment shall be raised to Dy. CAO (Bills), Corporate Office with copy to concern Ex. Engr. (Const).

43.3 Balance 10% payment for supply shall be released only after finalization of material account and passing of final bill only. The contractor has to submit the final bill along with the material consumption statement and other required data of the work carried out within 3 months from the date of completion of work.

43.4 For Erection & Civil works: Monthly R.A Bills for erection 90% value of work executed in original with one copy shall be submitted to concerned EE(Const) for passing and processing for payment.

43.5 Balance 10% payment for erection shall be released only after finalization of material account and passing of final bill only. The contractor has to submit the final bill along with the material consumption statement and other required data of the work carried out within 3 months from the date of completion of work.

43.6 All the bills in accordance with the above clauses must be submitted with the following information:

   a) Item wise work done during billing period.

Seal & Signature of Bidder
b) Item wise cumulative work done.

c) Account for material consumed and balance stock.

43.7 For non-submission or part submission of above information, an additional 5% amount of the respective RA bill shall be withheld and shall only be released at the time of final bill.

**CONTRACT SECURITY AND PAYMENTS**

**44.0 PAYMENT**

44.1 The payment to the Contractor for the performance of the works under the Contract will be made by the Owner as per the guidelines and conditions specified herein. All payments made during the Contract shall be on account payments only. The final payment will be made on completion of all Works and on fulfillment by the Contractor of all his liabilities under the Contract.

44.2 Currency of Payment
All payments under the Contract shall be in Indian Rupees only.

**45.0 Payment Schedule**

Payment shall be as per contract price schedule agreed based on unit rate. The final price schedule shall be based on approved drawings & BOQ. The tender BOQ is indicative. Supply & Erection of quantities shall be as per approved Drgs. & BOQ and excess shall not be accepted.

45.1 Application for Payment

The Contractor shall submit application for the payment.

45.2 Each such application shall state the amount claimed and shall set forth in detail, in the order of the Payment Schedule, particulars of the Works including the Works executed at Site and of the equipment shipped/brought on to the site pursuant to the Contract up to the date mentioned in the application and for the period covered since the last preceding certificate, if any.

45.3 Every interim payment certificate shall certify the Contract value of the Works executed up to the date mentioned in the application for the payment certificate, provided that no sum shall be included in any interim payment certificate in respect of the works that, according to the decision of the Engineer, does not comply with the Contract.

45.4 Mode of Payment

45.5 Payment due on dispatch of equipment shall be made by the Owner through Owner’s Bank or directly to the Contractor as per the payment schedule.

45.6 The payment of test charges, if any, payment, taxes and duties (whenever admissible) inland transportation (including port handling), insurance and the erection portion of the Works shall be made direct to the Contractor by the Owner.

45.7 All payments under the Contract shall be made as stipulated in the Contract after signing the Contract Agreement. The payments linked with the dispatch of materials shall only be made after production of all dispatch documents as specified in the relevant Contract conditions which will interalia include the Material Inspection Clearance Certificate issued by the Owner. Progressive payments linked with erection shall only be made after the issue of certificates by the Engineer, one for the quantum of work completed and the other for the successful completion of quality check points involved in the quantum of work billed.
45.8 **Billing and breakup:** Price breakup for supply items will be considered only for billing purpose & not for actual payment. Payment for equipments supplied shall be released as per price schedule given in the tender specifications.

45.9 **Inland Transportation & Insurance**

Inland transportation (including port handling) and inland insurance charges shall be paid to the Contractor on pro-rata to the value of the equipment received at site and on production of the invoices by the Contractor. However, wherever equipment wise inland transportation charges have been called for in the ‘Bid Proposal Sheets’ and have been furnished by the Contractor, the payment of inland transportation charges shall be made after receipt of equipment at site based on the charges thus identified by the Contractor in his Proposal and incorporated in the Contract. The aggregate of all such pro-rata payments shall however not exceed the total amount quoted by the Bidder in his bid and incorporated in the Contract.

46.0 **DEDUCTIONS FROM CONTRACT PRICE**

All costs, damages or expenses which the Owner may have paid, for which under the Contract the Contractor is liable, or any other retention award will be claimed by the Owner. All such claims shall be billed by the Owner to the Contractor regularly as and when they fall due. Such bills shall be supported by appropriate and certified vouchers or explanations, to enable the Contractor to properly identify such claims. Such claims shall be paid by the Contractor within thirty (30) days of the receipt of the corresponding bills and if not paid by the Contractor within the said period, the Owner may then deduct the amount, from any monies due or becoming due by him to the Contractor under the Contract or may be recovered by sections of Law or otherwise.

47.0 **Terms of Payment**

The payment for materials to be supplied and erected shall be made as under only after execution of the contract documents/furnishing of Security Deposit and on execution of substation work.

47.1 **For supply**

(i) 80% of supply value for each consignment of Sub-Station material including accessories on submission of invoice along with 100% taxes, duties, F & I shall be paid from corporate office within 60 days from the date of preparation of SR Note after verifying the following documents.

A. Commercial invoice.
B. Excise invoice.
C. Delivery challan.
D. Endorsed RR / LR copy.
E. Dispatch clearance certificate / letter wherever applicable.

(ii) 10% payment out of balance 20% shall be released from corporate office within 60 days on completion of Sub –Station work, handing over and preliminary acceptance certificate issued by the Site Engineers in charge after rectification work if any and settlement of material account according to actual quantity utilized for completion of S/S. Supply to be made as per approved drawing/ BOQ.

(iii) Balance 10% of supply value shall be paid from corporate office on successful commissioning of Sub-Station against completion certificate and only after settlement of material account statement of items supplied, used, erected and successful commissioning is settled for complete job and will be released within 60 days only after passing of final bill.
47.2 **For erection works.**

(i) 90% payment of amount claimed covering various activities such as excavation, foundation, erection, earthing, stringing of bus bar and earthwire including insulator hoisting works against R.A. bills duly certified by EIC within 60 days from the date of R.A. bill.

(ii) Balance 10% of erection value shall be paid within 60 days against commissioning of Sub-Station only after settlement of material account statement of items supplied, used, erected and successful commissioning of Sub-Station line the same amount will be release in final bill only and payment will be made only after passing of final bill.

(iii) If net payable amount is more than Rs 5.0 Lacs, payment will be released from circle office/corporate office.

47.3 As mentioned in clause no. 47.1 & 47.02 the payment will be released within 60 days. However, in case of any delay due to any eventuality no interest charges shall be paid.

48.0 **TAKING DELIVERY AND INSURANCE:**

48.1 The contractor has to keep S/S materials in safe custody and transport to the respective sites and will be fully responsible for any damage to or loss of all materials at any stage during transportation or erection till taking over of the S/S by GETCO.

48.2 The Contractor has to open site store and ensure for safe custody of all the stored materials at his own cost.

48.3 The Contractor shall have total responsibility for the entire materials stored, loose, semi assembled and/or erected by him at site in his custody. The Contractor shall make suitable security arrangements at his own cost to ensure the protection of all materials, equipment and works from theft, fire pilferage and any other damages and loss. It shall be the responsibility of the contractor to arrange for security till the works are finally taken over by the GETCO.

48.4 **STORAGE-CUM-INSURANCE:** The contractor shall take suitable storage-cum-erection insurance cover at his cost to the extent of 100 % cost of S/S materials, which are required to complete the S/S. Contractor shall have to take comprehensive insurance policy against any loss, damage, theft, pilferage, fire etc. for the complete period of storage, erection and commissioning up to the time of taking over of the S/S by GETCO. The Contractor shall deal directly and pursue the claim with the Insurance Company and shall be responsible in regard to maintenance of all insurance coverage as well as for settlement of claim. The proof of insurance policy taken by the successful Contractor shall be furnished to Engineer-In-Charge. In absence of the above insurance policy, R.A. Bill payment will be with held.

48.5 In the event of any damage, theft, loss, pilferage, fire etc., Contractor will be responsible to lodge, pursue and settle all the claims with the Insurance Company for all items, materials and the GETCO shall be kept informed about it. Contractor shall replace the lost / damaged materials / items promptly irrespective of the settlement of the claims by underwriter and ensure that the work progress is as per agreed schedule. The loss, if any, such replacement will have to be borne by the Contractor and GETCO will not entertain any claim / representation in this regard. However it will be contractor’s responsibility to insure the entire project till the S/S is taken over by the GETCO.

49.0 **Insurance:**

The Bidder’s insurance liabilities pertaining to the scope of Works are detailed out in Clauses titled Insurance. Bidder’s attention is specifically invited to these clauses. Bid price shall include all the costs in fulfilling all the insurance liabilities under the Contract.

49.1 The Contractor at his cost shall arrange, secure and maintain all insurance as may be pertinent to the Works and obligatory in terms of law to protect his interest and interests of the Owner against all perils detailed herein. The form and the limit of such insurance as defined herein together with the under-writer in each case shall be acceptable to the
Owner. However, irrespective of such acceptance, the responsibility to maintain adequate insurance coverage at all time during the period of Contract shall be of Contractor alone. The Contractor’s failure in this regard shall not relieve him of any of his contractual responsibilities and obligations. The insurance covers to be taken by the Contractor shall be in the joint name of the Owner and the Contractor. The Contractor shall, however, be authorized to deal directly with Insurance Company or Companies and shall be responsible in regard to maintenance of all insurance covers. Further the insurance should be in freely convertible currency.

49.2 Any loss or damage to the equipment during handling, transportation, storage, erection, putting into satisfactory operation and all activities to be performed till the successful completion of commissioning of the equipment shall be to the account of the Contractor. The Contractor shall be responsible for preference of all claims and make good the damages or loss by way of repairs and/or replacement of the equipment, damaged or lost. The transfer of title shall not in any way relieve the Contractor of the above responsibilities during the period of Contract. The Contractor shall provide the Owner with copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the Owner immediately after such insurance coverage. The Contractor shall also inform the Owner in writing at least sixty (60) days in advance regarding the expiry/cancellation and/or change in any of such documents and ensure revalidation, renewal etc., as may be necessary well in time.

49.3 The perils required to be covered under the insurance shall include, but not be limited to fire and allied risks, miscellaneous accidents (erection risks) workman compensation risks, loss or damage in transit, theft, pilferage, earth quake, riot and strikes and malicious damages, civil commotion, weather conditions, accidents of all kinds, etc. The scope of such insurance shall be adequate to cover the replacement/reinstatement cost of the equipment for all risks up to and including delivery of goods and other costs till the equipment is delivered at Site. The insurance policies to be taken should be on replacement value basis and/or incorporating escalation clause. Notwithstanding the extent of insurance cover and the amount of claim available from the underwriters, the Contractor shall be liable to make good the full replacement/rectification value of all equipment/materials and to ensure their availability as per project requirements.

49.4 All costs on account of insurance liabilities covered under the Contract will be on Contractor’s account and will be included in Contract Price, However, the Owner may from time to time, during the pendency of the Contract, ask the Contractor in writing to limit the insurance coverage, risks and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Contract price to the extent of reduced premia amount. The Contractor, while arranging the insurance shall ensure to obtain all discounts on premia which may be available for higher volume or for reason of financing arrangement of the project.

49.5 The clause entitled ‘Insurance’, covers the additional insurance requirements for the portion of the works to be performed at the Site.

50.0 Contract Quality assurance:

50.1 The Bidder shall include in his proposal the Quality Assurance Programme containing the overall quality management and procedures which he proposes to follow in the performance of the Works during various phases as detailed in relevant clause of the General Technical Conditions.

50.2 At the time of Award of Contract, the detailed Quality Assurance Programme to be followed for the execution of the Contract will be mutually discussed and agreed and such agreed Programme shall form a part of the Contract.
50.3 The Bidder shall clearly specify the list of sub-vendors from whom the bought out items are being supplied. Such details shall be accompanied by their list of previous supplies made performance reports etc. However, in case of orders are placed, specific approval shall be obtained from the owner for the vendor supplied materials. The quality assurance program shall be furnished for each material separately for approval.

51.0 Erection Tools And Tackles:

The Bidder under a separate schedule, in his proposal shall include a list of all-special equipment tools & tackles etc. which he proposes to bring to site for the purpose of erection, handling, testing and commissioning including performance and guarantee tests of the equipment. However such tools tackles brought to the site for purpose of erection, handing testing & commissioning shall remain property of the contractor and can be taken back after completion of the work.

52.0 Brand Names:

52.1 The specific reference in these specifications and documents to any material/equipment by brand name make or catalogue number shall be construed as establishing standards of quality and performance and not as limiting competition. However, Bidders may offer other similar material/equipment provided they meet the specified standard, design and performance requirements. The Bidder shall furnish adequate technical information about such alternative material equipment to enable the Owner to determine its acceptability. The Owner shall be the sole judge on the acceptability or otherwise of such alternatively material/equipment.

52.2 The bidder shall not that standards for workmanship material and equipment, and reference to brand name of catalogue numbers designed by the Owner in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand name and/or catalogue numbers in its bid, provided that it demonstrates to the Owner’s satisfaction that the substitutions are substantially equivalent or superior to those designed in the Technical Specification.

53.0 CONTRACT DOCUMENTS

53.1 The term Contract Documents shall mean and include the following which shall be deemed to form an integral part of the Contract:

   a) Invitation to Bid including letter forwarding the Bidding Documents, General Terms and Conditions of Contract and all other documents included under Part I and the Special Conditions of Contract.

   b) Specifications of the equipment to be furnished and erected under the Contract as brought out in the accompanying Technical Specifications.

   c) Contractor’s Bid Proposal and the documents attached there to including the letters of clarifications thereto between the Contractor and the Owner prior to the Award of Contract except to the extent of repugnancy.

   d) All the materials, literature, data and information of any sort given by the Contractor along with his bid, subject to the approval of the Owner /Consultant.

   e) Letter of Award and any agreed variations of the conditions of the documents and special terms and conditions of Contract, if any.

53.2 In the event of any conflict between the above mentioned documents the matter shall be referred to the Engineer whose decision shall be considered as final and binding upon the parties.
54.0 USE OF CONTRACT DOCUMENTS AND INFORMATION

54.1 The Contractor shall not, without the Owner’s prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Owner in connection therewith, to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for the purpose of such performance.

54.2 The Contractor shall not, without the Owner’s prior written consent, make use of any document or information enumerated in various Contract documents except for the purpose of performing the Contract.

54.3 The Contractor shall not communicate or use in advertising, publicity, sales releases or in any other medium, photographs or other reproduction of the Works under this Contract, or descriptions of the site, dimensions, quantity, quality or other information, concerning the works unless prior written permission has been obtained from the Owner.

54.4 Any document, other than the Contract itself, enumerated in various Contract documents shall remain the property of the Owner and shall be returned (in all copies) to the Owner on completion of the Contractor’s performance under the Contract if so required by the Owner.

55.0 CONSTRUCTION OF THE CONTRACT

55.1 Notwithstanding anything stated elsewhere in the bid documents, the Contract to be entered into will be treated as a divisible Supply and Erection Contract. Award shall be placed on the successful Bidder as follows:
   i) Contract: For supply of all equipment and materials at sub station site.
   iii) Contract: For providing all other services like storage at site, handling at site, installation, testing, pre-commissioning and commissioning including performance testing in respect of all the equipment material supplied under the “Contract” and any other equipment/materials given by the owner for transport from owner’s stores, insurance, unloading storage handling at site installation testing & commissioning.

55.2 In case of divisible supply and erection Contract, or where the Owner hands over his equipment to the Contractor for executing, then the Contractor shall at the time of taking delivery of the equipment/dispatch documents be required to execute an Indemnity Bond in favour of the Owner in the form acceptable to the GETCO for keeping the equipment in safe custody and to utilize the same exclusively for the purpose of the said Contract. Samples of proforma for the Indemnity Bond will be furnished during award of Contract.

55.3 The Contract shall in all respects be construed and governed according to Indian Laws.

55.4 It is clearly understood that the total consideration for the Contract(s) has been broken up into various components only for the convenience of payment under the Contract(s) and for the measurement of deviations or modifications under the Contract(s).
56.0 JURISDICTION OF CONTRACT

56.1 The laws applicable to the Contract shall be the laws in force in India. The Courts of Vadodara shall have exclusive jurisdiction in all matters arising under this Contract.

57.0 EXECUTION OF CONTRACT:

57.1 The Owner, after the issue of the Letter of Award to the Contractor, will send one copy of the final agreement to the Contractor for his scrutiny and approval.

57.2 The Agreement, unless otherwise agreed to, shall be signed within 30 days of the acceptance of the Letter of Award, at the office the Owner at Vadodara on a date and time to be mutually agreed. The Contractor shall provide for signing of the Contract, Performance Guarantee, appropriate power of attorney and other requisite materials. In case the Contract is to be signed beyond the stipulated time, the Bid Guarantee submitted with the Proposal will have to be extended accordingly.

57.3 The Agreement will be signed in copies to be specified and the Contractor shall be provided with one signed original and the rest will be retained by the Owner.

57.4 The Contractor shall provide free of cost to the Owner all the Engineering data, drawings, and descriptive materials submitted with the bid including soft copy, to form a part of the Contract immediately after issue of Letter of Award.

57.5 Subsequent to signing of the Contract, the Contractor at his own cost shall provide the Owner with copies of agreement within fifteen (15) days after the signing of the Contractor.

58.0 ENFORCEMENT OF TERMS

58.1 The failure of either party to enforce at any time any of the provisions of this Contract or any rights in respect thereto or to exercise any option therein provided, shall in no way be construed to be a waiver of such provisions, rights or options or in anyway to affect the validity of the Contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have under the Contract.

59.0 COMPLETION OF CONTRACT

59.1 Unless otherwise terminated under the provisions of any other relevant clause, this Contract shall be deemed to have been completed on the expiry of the guarantee period as provided for under the clause entitled ‘Guarantee’

60.0 REPLACEMENT OF DEFECTIVE PARTS AND MATERIALS

60.1 If during the performance of the Contract, the Engineer shall decide and inform in writing to the Contractor that the Contractor has manufactured any equipment, material or part of equipment unsound and imperfect or has furnished any equipment inferior to the quality specified, the Contractor on receiving details of such defects or deficiencies shall at his own expense within seven (7) days of his receiving the notice, or otherwise, within such time as may be reasonably necessary for making it good, proceed to alter, reconstruct or remove such works and furnish fresh equipment/materials upto the standards of the specifications. In case, the Contractor fails to do so, the Engineer may on giving the Contractor seven (7) days notice in writing of his intentions to do so, proceed to remove the portion of the works so complained of and at the cost of the Contractor perform all such Works or furnish all such equipment/ material provided that nothing in this clause shall be deemed to deprive the Owner of or affect any rights under the Contract which the Owner may otherwise have in respect of such defects and deficiencies.

60.2 The Contractor’s full and extreme liability under this clause shall be satisfied by the payment to the Owner of extra cost, of such replacement procured including erection as provided for in the Contract, such extra cost being the ascertained difference between
the price paid by the Owner for such replacements and the Contract Price by portion for such defective equipment/materials/works and repayments of any sum paid by he Owner to the Contractor in respect of such defective equipment/material. Should the Owner not so replace the defective equipment/materials the Contractor’s extreme liability under this clause shall be limited to repayment of all sums paid by the Owner under the Contract for such defective equipment/materials.

61.0 PATENT RIGHTS AND ROYALTIES

Royalties and fees for patents covering materials, articles, apparatus, devices, equipment or processes used in the works shall be deemed to have been included in the Contract Price. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he alone shall be liable for any damages or claims for patent infringements and shall keep the Owner indemnified in that regard. The Contractor shall, at his own cost and expense, defend all suits or proceedings that may be instituted for alleged infringement of any patents involved in the Works, and, in case of an award of damages, the Contractor shall pay for such award. In the event of any suit or other proceedings instituted against the Owner, the same shall be defended at the cost and expense of the Contractor who shall also satisfy/comply with any decree, order or award made against the Owner. But it shall be understood that no such machine, plant, work, material or thing has been used by the Owner for any purpose or any manner other than that for which they have been furnished and installed by the Contractor and specified under these specifications. Final payment to the Contractor by the Owner will not be made while any such suit or claim remains unsettled. In the event any apparatus or equipment, or any part thereof furnished by the Contractor, is in such suit or proceedings held to constitute infringement, and its use is enjoined, the Contractor shall at his option and at his own expense, either procure for the Owner, the right to continue the use of said apparatus, equipment or part thereof, replace it with non-infringing apparatus or equipment or modify it, so it becomes non-infringing.

62.0 DEFENCE OF SUITS

If any action in court is brought against the Owner or Engineer or an officer or agent of the Owner, for the failure, omission or neglect on the part of the Contractor to perform any acts, matters, covenants or things under the Contract, or for damage or injury caused by the alleged omission or negligence on the part of the Contractor, his agents, representatives or his Sub-Contractors, or in connection with any claim based on lawful demands of Sub-Contractors, workmen, suppliers or employees, the Contractor shall in all such cases indemnify and keep the Owner, and the Engineer and/or his representative, harmless from all losses, damages, expenses or decrees arising of such action.

63.0 LIMITATION OF LIABILITIES

The final payment by the Owner in pursuance of the Contract shall mean the release of the Contractor from all his liabilities under the Contract. Such final payment shall be made only at the end of the Guarantee/Warranty period, and till such time as the Contractual liabilities and responsibilities of the Contractor, shall prevail. All other payments made under the Contract shall be treated as on-account payments. The aggregate liabilities are limited up to the total contract value.

64.0 ENGINEER’S DECISION

64.1 In respect of all matters which are left to the decision of the Engineer including the granting or with-holding of the certificates, the Engineer shall, if required to do so by the Contractor, give in writing a decision thereon.

64.2 If, in the opinion of the Contractor, a decision made by the Engineer is not in accordance with the meaning and intent of the Contract, the Contractor may file with the Engineer, within fifteen (15) days after receipt of the decision, a written objection to the decision.
Failure to file an objection within the allotted time will be considered as an acceptance of the Engineer's decision and the decision shall become final and binding.

64.3 The Engineer’s decision and the filing of the written objection thereto shall be a condition precedent to the right to request arbitration. It is the intent of the Agreement that there shall be no delay in the execution of the works and the decision of the Engineer as rendered shall be promptly observed.

65.0 POWER TO VARY OR OMIT WORK

65.1 No alterations, amendments, omissions, suspensions or variations of the Works (hereinafter referred to as ‘variation’) under the Contract as detailed in the Contract Documents, shall be made by the Contractor except as directed in writing by the Engineer, but the Engineer shall have full powers subject to the provisions hereinafter contained, from time to time during the execution of the Contract, by notice in writing to instruct the Contractor to make such variation without prejudice to the Contract. The Contractor shall carry out such variation and be bound by the same conditions as far as applicable as though the said variations occurred in the Contract Documents. If any suggested variations would, in the opinion of the Contractor, if carried out, prevent him from fulfilling any of his obligations or guarantees under the Contract, he shall notify the Engineer thereof in writing and the Engineer shall decide forthwith whether or not, the same shall be carried out and if the Engineer confirms his instructions, the Contractor’s obligations and guarantees shall be modified to such an extent as may be mutually agreed. Any agreed difference in cost occasioned by any such variation shall be added to or deducted from the Contract Price as the case may be.

65.2 In the event of Engineer requiring any variation, a reasonable and proper notice shall be given to the Contractor to enable him to work his arrangement accordingly, and in cases where goods or materials are already prepared or any design, drawings or pattern made or work done as per the contract requires to be altered, a reasonable and agreed sum in respect thereof shall be paid to the Contractor.

65.3 In any case in which the Contractor has received instructions from the Engineer as to the requirement of carrying out the alterations or additional or substituted work which either then or later on, will in the opinion of the Contractor, involve a claim for additional payment, the Contractor shall immediately and in no case later than thirty (30) days, after receipt of the instructions aforesaid and before carrying out the instructions, advise the Engineer to that effect. But the Engineer shall not become liable for payment of any charges in respect of any such variations, unless the instructions for the performance of the same shall be confirmed in writing by the Engineer.

65.4 If any variation in the Works results in reduction of Contract Price, the parties shall agree, in writing, so to the extent of any change in the price, before the Contractor proceeds with the change.

65.5 In all the above cases, in the event of a disagreement as to the reasonableness of the said sum, the decision of the Engineer shall prevail.

65.6 Notwithstanding anything stated above in this clause, the Engineer shall have the full power to instruct the Contractor, in writing, during the execution of the Contract to vary the quantities of the items or groups of items in accordance with the provisions of clause entitled ‘Change of Quantity’ in section GCC. The Contractor shall carry out such variations and be bound by the same conditions as though the said variations occurred in the Contract Documents. However, the Contract Price shall be adjusted at the rates and the prices provided for the original quantities in the Contract.
66.0 ASSIGNMENT AND SUB-LETTING OF CONTRACT

66.1 The Contractor may, after informing the Chief Engineer (Project) & getting written approval, assign or sub-let the Contract or any part thereof other than for raw material, for minor items or for any part of the plant for which makes are identified in the Contract. Suppliers of the equipment not identified in the Contract or any change in the identified suppliers shall be subject to approval by the Chief Engineer. The experience of equipment vendors under consideration by the Contractor for this Contract shall be furnished to the Chief Engineer for approval prior to procurement of all such items/equipment. Such assignment/sub-letting shall not relieve the Contractor from any obligation, duty or responsibility under the Contract. Any assignment as above, without prior written approval of Chief Engineer, shall be void.

In case of Erection activity, the contractor may after getting written approval from CE(Project), assign or sublet any part of erection or as a whole. To do so contractor have to apply for such subletting with a clear proposal stating details & experience of the subletting agency, along with the tender or within 30 days from the date of LOI & decision thereof will be conveyed within 30 days there after by GETCO. The proposed erection agency shall have experience of executing similar job of voltage class of 220Kv & above and value equivalent to erection portion during last five years. The decision of competent authority in this regard shall remain final and binding to the agency.

66.2 For components/equipment procured by the Contractor for the purposes of the Contract, after obtaining the written approval of the Owner, the Contractor’s purchase specifications and enquiries shall call for quality plan to be submitted by the suppliers along with their Proposals. The quality plans called for from the Vendors shall set out, during the various stages of manufacture and installation, the quality practices and procedures followed by the Vendors’ quality control organization, the relevant reference document/standard used, acceptance level, inspection documentation raised, etc. Such quality plans of the successful vendors shall be discussed and finalized in consultation with the Engineer and shall form a part of the Purchase Order/Contract between the Contractor and the Vendor. Within three weeks of the release of the Purchase Orders/Contracts for such bought out items/components a copy of the same without price details but together with detailed purchase specifications, quality plans and delivery conditions shall be furnished to the Engineer by the Contractor.

67.0 CHANGE OF QUANTITY

67.1 During the execution of the Contract, the Owner reserves the right to increase or decrease the quantities of items under the Contract but without any change in unit price or other terms & conditions. Such variations unless otherwise specified in the accompanying GCC and/or Technical Specifications, shall not be subjected to any limitation for the individual items but the total variations in all such items under the Contract shall be limited to the extent of 30%(Thirty Percent ) of the contract price by way of suitable amendment to the contract.

67.2 The Contract price shall accordingly be adjusted based on the unit rates available in the Contract for the change in quantities as above. The base unit rates, as identified in the Contract shall however remain constant during the currency of the Contract, In case the unit rates are not available for the change in quantity, the same shall be subjected to mutual agreement.

67.3 As this is an EPC contract, Design will be done by the Contractor. Responsibility of material will be that of the contractor.

68.0 PACKING, FORWARDING AND SHIPMENT

68.1 The Contractor, wherever applicable, shall after proper painting, pack and crate all equipment in such a manner as to protect them from deterioration and damage during rail and road transportation to the Site and storage at the Site till the time of erection. The Contractor shall be held responsible for all damages due to improper packing.
68.2 The Contractor shall notify the Owner of the date of each shipment from his works, and the expected date of arrival at the Site for the information of the Owner.

68.3 The Contractor shall also give all shipping information concerning the weight, size and content of each packing including any other information the Owner may require.

68.4 The following documents shall be sent by registered post to the Owner within three days from the date of shipment, to enable the Owner to make progressive payments to the Contractor:
- Application for payment in the standard format of the Owner
- Invoice
- Packing list
- Pre-despatch clearance certificate, if any
- Test Certificate, wherever applicable
- Insurance Certificate

68.5 The Contractor shall prepare detailed packing list of all packages and containers, bundles and loose materials forming each and every consignment despatched to Site. The Contractor shall further be responsible for making all necessary arrangements for loading, unloading and other handling right from his works up to the Site and also till the equipment is erected, tested and commissioned. He shall be solely responsible for proper storage and safe custody of all equipment.

69.0 COOPERATION WITH OTHER CONTRACTORS AND CONSULTING ENGINEERS

The Contractor shall agree to cooperate with the Owner’s other Contractors and Consulting Engineers and freely exchange with them such technical information as is necessary to obtain the most efficient and economical design and to avoid unnecessary duplication of efforts. The Engineer shall be provided with three copies of all correspondence addressed by the Contractor to other Contractors and Consulting Engineers of the Owner in respect of such exchange of technical information, wherever needed.

70.0 NO WAIVER OF RIGHTS

Neither the inspection by the Owner or the Engineer or any of their officials, employees, or agents nor any order by the Owner or the Engineer for payment of money or any payment for or acceptance of, the whole or any part of the Works by the Owner or the Engineer, nor any extension of time, nor any possession taken by the Engineer shall operate as a waiver of any provision of the Contract, or of any power herein reserved to the Owner or any right to damages herein provided nor shall any waiver of any breach in the Contract be held to be a waiver of any other or subsequent breach.

71.0 CERTIFICATE NOT TO AFFECT RIGHT OF OWNER AND LIABILITY OF THE CONTRACTOR.

No interim payment certificate of the Engineer, nor any sum paid on account by the Owner, nor any extension of time for execution of the Works granted by the Engineer shall affect or prejudice the rights of the Owner against the Contractor or relieve the Contractor of his obligation for the due performance of the Contract, or be interpreted as approval of the Works done or of the equipment furnished and no certificate shall create liability for the Owner to pay for alterations, amendments, variations or additional works not ordered, in writing, by the Engineer or discharge the liability of the Contractor for the payment of damages whether due, ascertained, or certified or not or any sum against the payment of which he is bound to indemnify the Owner, nor shall any such certificate nor the acceptance by him of any sum paid on account or otherwise affect or prejudice the rights of the Owner against the Contractor.
72.0 PROGRESS REPORTS

During the various stages of the work in pursuance of the Contract, the Contractor shall at his own cost submit periodic progress reports as may be reasonably required by the Engineer with such materials as, in approved MS PROJECT, charts, net-works, photographs, test certificates, etc. Such progress reports shall be on monthly base for supply items & fortnightly for erection activities in the form and size as may be required by the Engineer.

73.0 TAKING OVER

Upon successful completion of all the tests and commissioning by the Contractor, the Engineer shall issue to the Contractor a Taking Over Certificate (TOC) as a proof of the final acceptance of the equipment. Such certificate shall not unreasonably be withheld nor will the Engineer delay the issuance thereof on account of minor omissions or defects which do not affect the commercial operation and/or cause any serious risk to the equipment. Such certificate shall not relieve the Contractor of any of his obligations which otherwise survive, by the terms and conditions of the Contract after issue of such certificate.

In the event of completion of pre commissioning tests carried out jointly, if energization of the substation is prevented for reasons not attributable to the successful bidder, the Preliminary Acceptance Certificate shall be given within 30 days of pre commissioning tests prior to Taking Over Certificate (TOC).

74.0 RISK DISTRIBUTION--TRANSFER OF TITLE

74.1 Transfer of title in respect of equipment and materials supplied by the Contractor to GETCO pursuant to the terms of the Contract shall pass on to GETCO with negotiation of dispatch documents.

74.2 This Transfer of Title shall not be construed to mean the acceptance and the consequent “Taking Over” of equipment and materials. The Contractor shall continue to be responsible for the quality and performance of such equipment and materials and for their compliance with the specifications until “Taking Over” and the fulfillment of guarantee provisions of this Contract.

74.3 This Transfer of Title shall not relieve the Contractor from the responsibility for all risks of loss or damage to the equipment and materials as specified under the clause entitled “Insurance” of this Section.

75.0 LIABILITY FOR ACCIDENTS AND DAMAGES

Under the Contract, the Contractor shall be responsible for loss or damage to the plant until the successful completion of commissioning as defined else where in the Bid document.

76.0 DEMURRAGE, WHARFAGE, ETC.

All demurrage, wharfage and other expenses incurred due to delayed clearance of the material or any other reason shall be to the account of the Contractor.

77.0 FORCE MAJEURE

77.1 Force majeure is herein defined as any cause which is beyond the control of the Contractor or the Owner as the case may be, which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affects the performance of the Contract, such as:

a. Natural phenomena, including but not limited to floods, droughts, earthquakes and epidemics;
b. Acts of any Government, domestic or foreign, including but not limited to war, declared or undeclared, priorities, guarantees, embargoes.

Provided either party shall within fifteen (15) days from the occurrence of such a cause notify the other in writing of such causes.
77.2 The Contractor or the Owner shall not be liable for delays in performing his obligations resulting from any force majeure cause as referred to and/or defined above

The date of completion will, subject to hereinafter provided, be extended by a reasonable time even though such cause may occur after Contractor's performance of obligation has been delayed due to other causes.

78.0 SUSPENSION OF WORK

78.1 The Owner reserves the right to suspend and reinstate execution of the whole or any part of the Works without invalidating the provisions of the Contract. Orders for suspension or reinstatement of the Works will be issued by the Engineer to the Contractor in writing. The time for completion of the works will be extended for a period equal to duration of the suspension.

78.2 Any necessary and demonstrable cost incurred by the Contractor as a result of such suspension of the works will be paid by the Owner, provided such costs are substantiated to the satisfaction of the Engineer. The Owner shall not be responsible for any liabilities if suspension or delay is due to some default on the part of the Contractor or his Sub-Contractor.

79.0 CONTRACTOR'S DE FAULT

79.1 If the Contractor shall neglect to execute the works with due diligence and expedition or shall refuse or neglect to comply with any reasonable order given to him, in writing by the Engineer in connection with the works or shall contravene the provisions of the Contract, the Owner may give notice in writing to the Contractor to make good the failure, neglect or contravention complained of. Should the Contractor fail to comply with the notice within thirty (30) days from the date of serving the notice, then and in such case the Owner shall be at liberty to employ other workmen and forthwith execute such part of the works as the Contractor may have neglected to do or if the Owner shall think fit, without prejudice to any other right he may have under the Contract to take the work wholly or in part out of the Contractor's hands and re-contract with any other person or persons to complete the works or any part thereof and in that event the Owner shall have free use of all Contractor's equipment that may have been at the time on the Site in connection with the works without being responsible to the Contractor for fair wear and tear thereof and to the exclusion of any right of the Contractor over the same, and the Owner shall be entitled to retain and apply any balance which may otherwise be due on the Contract by him to the Contractor, or such part thereof as may be necessary, to the payment of the cost of executing the said part of the Works or of completing the Works as the case may be. If the cost of completing of works or executing part thereof as aforesaid shall exceed the balance due to the Contractor shall pay such excess. Such payment of excess amount shall be independent of the liquidated damages for delay which the Contractor shall have to pay if the completion of works is delayed.

79.2 In addition, such action by the Owner as aforesaid shall not relieve the Contractor of his liability to pay liquidated damages for delay in completion of Works.

79.3 Such action by the Owner as aforesaid the termination of the Contract under this clause shall not entitle the Contractor to reduce the value of the Contract Performance Guarantee nor the time thereof. The Contract Performance Guarantee shall be valid for the full value and for the full period of the Contract including guarantee period.

80.0 TERMINATION OF CONTRACT ON OWNER'S INITIATIVE

80.1 The Owner reserves the right to terminate the Contract either in part or in full due to reasons other than those mentioned under clause entitled 'Contractor's Default'. The Owner shall in such an event give fifteen (15) days notice in writing to the Contractor of his decision to do so.
80.2 The Contractor upon receipt of such notice shall discontinue the work on the date and to the extent specified in the notice, make all reasonable efforts to obtain cancellation of all orders and Contracts to the extent they are related to the work terminated and terms satisfactory to the Owner, stop all further sub-contracting or purchasing activity related to the work terminated, and assist Owner in maintenance, protection, and disposition of the works acquired under the Contract by the Owner.

In the event of such a termination the Contractor shall be paid compensation, equitable and reasonable, dictated by the circumstances prevalent at the time of termination.

80.3 If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partners dies then unless the Owner is satisfied that the legal representatives of the individual Contractor or of the proprietor of the propriety concern and in the case of partnership, the surviving partners, are capable of carrying out and completing the Contract the Owner shall be entitled to cancel the Contract as to its in completed part without being in any way liable to payment of any compensation to the estate of deceased Contractor and/or to the surviving partners of the Contractor’s firm on account of the cancellation of the Contract. The decision of the Owner that the legal representatives of the deceased Contractor or surviving partners of the Contractor’s firm cannot carry out and complete the Contract shall be final and binding on the parties. In the event of such cancellation the Owner shall not hold the estate of the deceased Contractor and/or the surviving partners of the estate of the deceased Contractor and/or the surviving partners of the Contractor’s firm liable to damages for not completing the Contract.

81.0 FRUSTRATION OF CONTRACT

81.1 In the event of frustration of the Contract because of supervening impossibility in terms of Section 56 of the Indian Contract Act, parties shall be absolved of their responsibility to perform the balance portion of the Contract, subject to provisions contained in sub-clause 84.3 below.

81.2 In the event of non-availability or suspension of funds for any reasons, whatsoever (except for reason of willful or flagrant breach by the Owner) and/or Contractor then the works under the Contract shall be suspended. Furthermore, if the Owner is unable to make satisfactory alternative arrangements for financing to the Contractor in accordance with the terms of the Contract within three months of the event, the parties hereto shall be relieved from carrying out further obligations under the Contract treating it as frustration of the Contract.

81.3 In the event referred to in sub-clauses 81.1 & 81.2 above the parties shall mutually discuss to arrive at reasonable settlement on all issues including amounts due to either party for the work already done on quantum merit basis which shall be determined by mutual agreement between the parties.

82.0 GRAFTS AND COMMISSIONS ETC.

Any graft, commission, gift or advantage given, promised or offered by or on behalf of the Contractor or his partner(s), agent(s), officer(s), director(s), employee(s) or servant(s) or any one on his or their behalf in relation to the obtaining or to the execution of this or any other Contract with the Owner, shall in addition to any criminal liability which it may incur, subject the Contractor to the cancellation of this and all other Contracts and also to payment of any loss or damage to the Owner resulting from any cancellation. The Owner shall then be entitled to deduct the amount so payable from any monies otherwise due to Contractor under the Contract.
83.0 RESOLUTION OF DISPUTES
SETTLEMENT OF DISPUTES

83.1 Any dispute(s) or difference(s) arising out of or in connection with the Contract shall, to the extent possible, be settled amicably between the parties.

83.2 If any dispute or difference of any kind, whatsoever, shall arise between the Owner and the Contractor, arising out of the Contract for the performance of the Works whether during the progress of the Works or after its completion or whether before or after the termination, abandonment or breach of the Contract, it shall, in the first place, be referred to and settled by the Engineer, who, within a period of thirty (30) days after being requested by either party to do so, shall give written notice of his decision to the Owner and the Contractor.

83.3 Save as hereinafter provided, such decision in respect of every matters so referred shall be final and binding upon the parties until the completion of the Works and shall forthwith be given effect to by the Contractor who shall proceed with the Works with all due diligence, whether he or the Owner requires arbitration as hereinafter provided or not.

83.4 If after the Engineer has given written notice of his decision to the parties, no claim to arbitration has been communicated to him by either party within thirty (30) days from the receipt of such notice, the said decision shall become final and binding on the parties.

83.5 In the event of the Engineer failing to notify his decision as aforesaid within thirty (30) days after being requested as aforesaid, or in the event of either the Owner or the Contractor being dissatisfied with any such decision, or within thirty (30) days after the expiry of the first mentioned period of thirty days, as the case may be, either party may require that the matters in dispute be referred to arbitration as hereinafter provided.

84.0 ARBITRATION

84.1 All disputes or differences in respect of which the decision, if any, of the Engineer has not become final or binding as aforesaid shall be settled by arbitration in the manner hereinafter provided.

84.1.1 The arbitration shall be conducted by three arbitrators, one each to be nominated by the Contractor and the Owner and the third to be appointed as an umpire by both the arbitrators in accordance with the Indian Arbitration Act. If either of the parties fails to appoint its arbitrator within sixty (60) days after receipt of a notice from the other party invoking the Arbitration clause, the arbitrator appointed by the party invoking the arbitration clause shall become the sole arbitrator to conduct the arbitration.

84.1.2 The arbitration shall be conducted in accordance with provisions of Indian Arbitration Act 1996 or latest amendment thereof.

84.2 The decision of the majority of the arbitrators shall be final and binding upon the parties. The arbitrators may, from time to time with the consent of all the parties enlarge the time for making the award. In the event of any of the aforesaid arbitrators dying, neglecting, resigning or being unable to act for any reason, it will be lawful for the party concerned to nominate another arbitrator in place of the outgoing arbitrator.

84.3 The arbitrator shall have full powers to review and/or revise any decision, opinion, direction, certification or valuation of the Engineer in accordance with the Contract, and neither party shall be limited in the proceedings before such arbitrators to the evidence or arguments put before the Engineer for the purpose of obtaining the said decision.

84.4 No decision given by the Engineer in accordance with the foregoing provisions shall disqualify him as being called as a witness or giving evidence before the arbitrators on any matter whatsoever relevant to the dispute or difference referred to the arbitrators as aforesaid.

84.5 During settlement of disputes and arbitration proceedings, both parties shall be obliged to carry out their respective obligations under the Contract.

84.6 All questions, disputes or differences, whatsoever which may at any time arise between the parties to this contract in connection with the contract or any matter arising out of or in relation there to shall be referred to the “Gujarat public works contracts disputes arbitration tribunal” as per the provisions of the Gujarat public works contracts disputes arbitration tribunal act, 1992.
The reference to arbitration proceedings under this clause shall not
a) Affect the right of the Engineer -in charge to take possession of all or any tools, plants, materials and stores, in or upon the work or site thereof or belonging to the contractor or procured by him and intended to be used for the execution of the work or any part thereof.
b) Preclude the Engineer-in charge from utilizing the materials purchased by the Contractor in any work or from removing such materials to other place, during the period the work is stopped or suspended in pursuance of notice given to the contractor under General Conditions.
c) Entitle the contractor to stop the progress of the work or carrying out the additional or altered work in accordance with the prevision of General Conditions for the work where there is no specifications.
d) Preclude the GETCO from getting the work done by another agency. Neither party is entitled to bring a claim to arbitration latest by thirty days after the expiration of the defects liability period.

The provisions of the Arbitration Act,1992, Gujarat Public Works Contract Disputes Arbitration Tribunal Act, 1992, and rules made there under shall apply to the arbitration proceeding under this clause. “

85.0 RECONCILIATION OF ACCOUNTS

The Contractor shall prepare and submit every two months, a statement covering payments claimed and the payments received vis-à-vis the works executed, for reconciliation of accounts with the Owner. The Contractor shall also prepare and submit a detailed account of Owner Issue materials received and utilized by him for reconciliation purpose in a format to be discussed & finalized with the Owner before the award of Contract.

86.0 LABOUR LAWS:

86.0.1 Persons below the age of 18 years shall not be employed for the work. No female worker shall be employed in the night shift between 07.00 pm. and 06.00 am. next day.

86.0.2 Contractor shall maintain a valid labour license under the contract Labour (Regulation and abolition) Act for employing necessary manpower required by him. In the absence of such license, the contract shall be liable to be terminated without assigning any reason thereof.

86.0.3 The Contractor shall at his own expenses comply with all labour laws and keep the GETCO indemnified in respect thereof. Some of the major liabilities under various labour and industrial laws which the Contractor shall comply with, are as under:

i) Payment of contribution by way of Employer’s Contribution towards provident Fund, Family Pension Scheme, Deposit Linked Insurance Scheme, Administrative charges, etc. at the rates made applicable from time to time by the Government of Gujarat / Government of India or other Statutory Authority.

ii) Payment of deposit in respect of each contract labour at the rate of Rs. 30/- or later prevailing rate with the Office of Commissioner of Labour as per the Contract Labour (Regulation and Abolition) Act.

iii) License fee as prescribed under the Contract Labour (Regulation and Abolition) Act and Rules framed there under depending upon the number of workmen.

iv) Paid leave facility and wages as per the provision of the Factories Act at the rate of one day for every 20 days of working.

v) Identity cards as prescribed under the Factories Act with photo affixed thereto, for identification.

vi) Payment of retrenchment compensation, Notice Pay and other liabilities as per Industrial Dispute Act. Any payment to the Contractor’s employee arising out of any claim of disputes under the Industrial Disputes Act 1947 or any other Labour Laws.
vii) Payment of compensation in case of accidental injury.

viii) Provision of crèche if the female laborers employed are more than 30.

ix) Maternity Leave as per the provisions of the Maternity Benefit Act.

The above are some of the major liabilities of the Contractor in addition to other
liabilities prescribed under the various labour laws, in force from time to time, from
Statutory Authorities like State Government/ Government o India, which the Contractor
shall have to comply with.

86.1 PROVIDENT FUND AND FAMILY PENSION SCHEME:

The Contractor shall submit along with his bills (month wise) a statement regarding
deduction against employees Provident Fund and Family Pension Scheme in respect of
each concerned employee. Provident Fund and Family pension Scheme at the rate of
18% (or at the rate made applicable by the Government from time to time of the wages.
The Contractor's contribution and his workers contribution towards Provident Fund and
Family Pension Scheme shall be deposited by the Contractor with Regional Provident
Fund Commissioner, Ahmedabad.

86.2 DEPOSIT LINKED INSURANCE SCHEME

The contractor shall have to deposit ½ % of the wages in respect of employees who is
a member of the Provident Fund, as the contribution to the Deposit Linked Insurance
Scheme with Regional Provident Fund Commissioner, Ahmedabad.

86.3 ADMINISTRATIVE CHARGES:

Administrative charges for maintaining Provident Fund Account shall be deposited by
the Contractor with Regional Provident Fund Commissioner, Ahmedabad at the rates
applicable.

86.4 PAID LEAVE FACILITY:

Paid Leave Facility at the rate of one day for every twenty days worked by the Contract
Labour, shall be provided by the Contractor to his workers. He shall maintain Leave
Records, Leave Cards, for individual laborer which shall be duly verified, approved and
certified by the authorized Officer of the GETCO.

86.5 WORKMAN’S COMPENSATION FUND AND EMPLOYER’S LIABILITY
INSURANCE:

The contractor shall cover all his employees under workmen’s compensation fund and
under the liability insurance. The purchaser shall not be responsible for any payments
of compensation to the workers/supervisor of the contractor for fatal or non-fatal
accidents during the pendency of the contract.

86.6 The contractor shall employ adequate number of experienced / skilled manpower at site
for daily supervision and for maintenance of various registers and records required
under the law and contract. No payment for supervision shall be admissible.

86.7 CONTRACTOR TO INDEMNIFY THE GETCO:

The Contractor shall Indemnify the GETCO and every member officer and employees
of the GETCO also, Engineer-in-Charge and his staff against all actions, proceedings,
claims, demands, costs and expenses whatsoever, arising out of or in connection with
the matters referred herein above elsewhere and against all actions, proceedings,
claims, demands, costs and expenses which may be made against the GETCO or
Government for or in respect of performance of his obligation under the contract
documents. The GETCO shall not be liable for intervention of authority Government for
or in respect of performance of his obligation under the contract documents. The
GETCO shall not be liable for or in respect of or in consequence of any accident or
injury to any workman or other person in the employment of the Contractor or his Sub-
Contractor and the contractor shall indemnify and keep indemnified the GETCO against
all claims, demands, proceedings, cost, charges and expenses whatsoever in respect
thereof or in relation thereto.
86.8 WORKMEN’S COMPENSATION AND EMPLOYER’S LIABILITY INSURANCE

Insurance shall be effected for all the Contractor’s employee engages in the performance of this contract. If any of the work is sublet, the Contractor shall required the Sub-Contractor to provide workmen’s employer’s liability insurance for the latter’s employees, such employees shall be covered under the Contractor’s Insurance.

86.9 WAGES TO BE PAID & TIME OF PAYMENT ETC. BY THE CONTRACTOR

a) The Contractor shall pay minimum wages per day to his Labours/ Workers as per rates fixed under the minimum wages act. The wages of every Contract Labour employed by him under this contract shall also be paid by him before the expiry of 7th day of the last day of the month in respect of the wages are payable (i.e. wages of a month have to be paid by him in the first week of the next month). Any default will result in cancellation of contract forthwith or else the contractor shall be punishable to the extent of Rs. 100/- per each day or as per the prevailing rules of labour laws.

b) The Contractor shall give his Telephone Number and Address to the GETCO, so that, in case of labour trouble etc. the Contractor can be contacted. The Contractor shall arrange to have his office outside the factory work premises and the Contractor shall arrange to have his office outside the factory work premises and the Contractor shall keep himself present throughout the working hours.

86.10 REGISTRATION WITH PROVIDENT FUND OFFICE

i) The separate P.F. code issued from P.F. commissioner is required to be taken by contractor.

ii) If the contractor does not possess separate P.F. code number of RPFC, his tender will not be considered for acceptance.

iii) The contractor should mention separate P.F. code number allotted by RPFC, along with the tender.

87.0 Termination of Contract:

In case of contractor fails to deliver the stocks or any consignment thereof within contractual period of delivery or in case the stores are found not in accordance with prescribed specification and/or the approved sample, the GETCO shall exercise its discretionary power either:

87.1 To recover, from the contractor as agreed, by way of penalty clause above, or

87.2 To purchase from elsewhere after giving due notice to the contractor on account and at the risk of the contractor for such stores not so delivered or other similar description without canceling the contract in respect of the consignment not yet due for delivery or

88.00 To cancel the contract.

In the event of the risk purchase of stores of similar description, the opinion of the GETCO shall be final. In the event of action taken under clause above, the contractor shall be liable to pay for any loss which the GETCO may sustain on that account, but the contractor shall not be entitled to have any saving on such purchases made against default.

The decision of the GETCO shall be final as regards to the acceptability of stores supplied by the contractor and the GETCO shall not be required to give any reason in writing or otherwise at any time for rejection of the stores.

89.0 MATCHING OF END COST:

In case the GETCO decides to award contract on matching end-cost basis, the bidder has to reduce all the quoted rates proportionately. The reduction on overall basis will not be accepted (i.e. all unit rates of erection schedule shall be reduced
proportionately by difference in percentage). The confirmation for matching end cost shall be given within 7 (seven) days from the letter from GETCO.

90.0 VENDOR REGISTRATION:

All new bidders / Vendors have to register themselves with the GETCO by paying fees as per GETCO norms (Non-refundable). Regular suppliers are registered automatically looking to their performance. They shall have to fill up a prescribed form attached herewith within two months giving basic details of their set up, turn over, ISO certification, etc. However, they shall have to re-register by paying fees as per GETCO norms (Non-Refundable) after 05 years from 01/03/2001. Factory inspection for new entrants is a must. Factory inspection shall be conducted for the period of every 2 years from where the supplier is supposed to supply the materials. This new rule shall come in to force after 06 months from 01/03/2001 so that party gets enough time for registration. However in the meantime all the New Vendors shall have to pay fees as per GETCO norms (Non-refundable) towards registration fees as explained above, before submission of bids and the proof of the same may be given with the technical bid otherwise tender will be ignored out rightly.

Vendor registration unto tender value of Rs.1 Lac (One Lac) for the new entrant is not required. However, Rs.1000/- towards Vendor registration shall be payable for the tender value between Rs.1 Lac and including up to Rs.5 Lacs. Vendor registration beyond Rs.5 lacs will be applicable and shall have to pay fees as per GETCO norms for new entrant as specified above.

If the New Vendors are already registered by paying fees as per GETCO norms (Non-Refundable), then it is requested to please quote the Vendor Registration Number & date in Annexure—“X” which is attached with the tender and also enclose the copies of Money Receipt and vendor registration letter in the EMD Cover.

If the tenderer is new & not registered with the GETCO, then they should Pay fees as per GETCO norms before opening of the tender itself and the copy of Money Receipt should be submitted in the EMD Cover, otherwise their tender will be ignored without any further communication in the matter.
GENERAL INFORMATION (TECHNICAL):

1.1. CODES, STANDARDS & REGULATIONS

The design, manufacture, erection and testing of the equipments and material to be supplied shall comply with latest revisions of relevant Indian Standards or equivalent IEC standards.

In addition, the Indian Electricity Rules, Electricity Act 2003, Statutory requirements of Central Govt., GERC and State Government of Gujarat( applicable codes), shall also be complied with. Any complications arising out of it will be set right by the bidder without any implication to Corporate.

The bidder shall submit his offer as per information given in submission of tender.

Drawings, Data and Documents

The bidder shall furnish following documents/ information along with offer in spiral bound volumes.

General description of equipment offered specifying the important features, make, technical parameters, materials of construction etc. To enable GETCO to have proper understanding of the material offered and its operation.

The following drawings and documents shall be furnished to GETCO by the successful bidder for approval of GETCO, within the period stipulated in the draft contract/mutually agreed terms at the time of placement of order, the bidder shall submit a list of all such drawings and documents he proposes to submit. The list will be approved by GETCO and may be modified, if necessary. Each drawing /document in the list shall be identified with a serial number, description and scheduled date of submission. This should be submitted in a spiral bound volumes.

1.2. MAJOR DOCUMENTS & DRAWINGS REQUIRED FOR APPROVAL:

- Switchyard Single Line Diagram
- Switchyard Layout Plan and Sections.
- Protection SLD with all details of relays and wiring
- Control room Layout
- Equipment Earthing Philosophy supported by all drawings and description of methods
- Earthing Layout showing Earth Mat(s), treated and untreated earth electrodes supported by complete Earthing system ( mat) design calculations
- Illumination Layout for switchyard and control room with design calculations
- Erection Key Diagram with BOQ
- Equipment Clearance Check Diagram (Clearances shown for each and every portion of switch yard, inter-equipments, equipments to tower/structures)
- Direct Stroke of Lightning Protection Layout with full design calculations.
- Sag Tension Calculations
- Other Design Calculations required for Sub-Station
- SS (gantry) Structure drawings along with design calculations (wherever design of structure is given by GETCO it can be exempted)
- All the equipment’s Structure drawings along with Design Calculations.
- Control and power cable philosophy and cable schedules for all the bays.
- Drawings for all the equipments & materials as per bidding schedule supported by required calculations related to design/rating /temp rise
- Field Quality Plan for Sub-Station.
1.3. FOR REFERENCE

OEM's Complete and comprehensive instruction manuals with drawings for operation and maintenance of the equipments supplied by the bidder. This shall also include the following:

- Static and dynamic loading of all major equipment
- Inter panel wiring of all equipment
- Inter panel wiring and terminal block arrangement
- External connection diagram, panel wise and scheme wise
- Composite drawings showing circuit of switchgear remote panels and other items to complete circuit for its proper functioning.

Log sheets indicating daily/ hourly recording of power system parameters to be noted down by GETCO operating person. The parameter shall indicate loading of various electrical equipment, quality of power supply, energy consumption and maximum demand of sub-station.

Preventive maintenance schedule for each equipment.

Procedure for shutdown and energization of switchyard and HT equipment.

Safety procedures for safe operation of equipment and complete system.

Test procedure for site tests.

1.4. AS- BUILT DRAWINGS

On completion of installation, testing and commissioning, the bidder shall incorporate revisions/ modification if any, in the reproducible and submit 'as built' drawing for GETCO’s record in spiral bound volumes and soft copy. The drawings shall be in Autocad DXF format.

1.5. TEST AND INSPECTION FOR INDIVIDUAL ITEM

Routine test/ Acceptance tests shall be carried out on all equipment at manufacture’s works as per appropriate IS/IEC. The bidder shall make reasonable facilities, at his cost for inspection and testing of the equipment/material by GETCO’s Officials. No equipment shall be dispatched to site without provisional certificates of acceptance issued by GETCO. Inspection and test shall be carried out at the place of manufacture as well as on receipt of the equipment at site if required. Inspection and tests do not relieve the bidder of his contractual obligations regarding performance of the equipment at site/in actual use.

The bidder shall submit the brief summary of all type test certificates for similar equipment supplied by him elsewhere and the actual type test certificates as and when asked. In case type test certificates for similar equipment is not available, the same shall be conducted in the presence of GETCO’s Authorized representative if GETCO so desires, without any financial implications to the GETCO. The type test report shall not be older than 5 year from the date of tender opening (Technical bid opening).

The supplier of the equipment shall ensure that the equipment available at his works for routine test/type test/acceptance test are duly calibrated and necessary certificate shall be made available to the inspecting officer of GETCO.

As far as possible, the supplier of equipment shall give a minimum of 15 days notice of readiness of material and give the inspection call accordingly. If on arrival of inspecting officer at the works, the material is not found to be ready, the concerned supplier of equipment shall be liable for additional expenditure GETCO may incur on account of retention or re-deputation of the inspecting officer.

The officer deputed for inspecting for particular lot of material according to intimation from you may also like to check Quality Control Plan and for that purpose he may demand the Test Reports of raw material being procured.

1.6. FUNCTIONAL AND COMPOSITE TESTING

Following test shall be conducted on equipment after completion of erection in the presence of Engineer -in-charge from point of view of completeness in the presence of GETCO’s Authorized Representative.
• Visual inspection of total system.
• Checking of continuity of power and control cables.
• Checking of insulation by secondary injection or by primary injection.
• Calibration of meters by secondary injections or by primary injection.
• Checking of protective schemes.
• Setting of relays and the checking of their operation with one lower and one higher setting.
• Checking of control scheme of breakers, etc. as per approved drawing and as per actual requirement.
• Checking of alarm and as per actual simulation of faults.
• Checking of nameplate data of complete system.
• Verification and measurement of earthing resistance.
• Checking of cable terminations and laying, dressing etc. in the equipment kiosk and control panels.
• Checking of safe accessibility of components.

All the equipments and materials shall be passed through checks and test as per approved Field Quality Plan.

The insulation resistance test shall be carried out on the following equipments.

- EHV installation - by 5000 V Megger
- HV installation above 11 KV - by 2500V Megger
- Power circuit of voltage up to 1KV- by 1000 V Megger
- A.C. & D.C. auxiliary circuits - by 500 V Megger

1.7. BAR CHARTS

The Bidder shall furnish along with the bid, the bar charts in M.S. Project and project schedules indicating starting and completion dates of each activity, such as preparation & approval of drawings, manufacturing/supply/delivery, civil works, erection, testing, pre commissioning and commissioning etc.

1.8 SCADA & Protection Architecture

SCADA & Protection architecture is based on IEC-61850 ring topology using 'Bay Oriented' approach. This concept includes Protection IEDs, Bay Control Units BCUs, LAN equipments etc. are to be installed in dedicated chambers (Yard-kiosks) close to primary equipments of switch-yard. All such equipments are to be connected through fiber optic cable in ring fashion. HMI PCs, DR work station PC, DAS metering PC, ABT metering PC, GPS, Gateway for RTU, Gateway for RCC and Printers are connected via switches and placed in Control Room.

1.9 GENERAL

Identification labels shall be provided on all equipments as per client’s approval. All labels shall be engraved on plastic (white letters with black background) and all text shall be in English language.

Any exclusion/deviation from specification shall be clearly spelt out and listed at one place only and bidder shall substantiate the same with appropriate reasons. In the absence of clearly spelt out and mutually agreed deviation, it shall be considered that the bidder has undertaken to comply with the technical specification totally, in letter and spirit.

It will be responsibility of the successful bidder to obtain necessary approval of statutory authority as per rules of Govt. of Gujarat and Central Electricity Authority for the work under his scope before energizing/charging the equipment/system. However bidder shall be extended all assistance by the GETCO in regard to application for the same.

The installation for the equipment shall include minor civil works and necessary material required to complete the Installation. It may be noted that foundation details for structure should be got approved from GETCO.

Before dispatch to the Site, but before energization, all components/accessories which are intended to be painted shall be thoroughly cleaned of rust, scales, greases, etc. and painted.
with two coats of proper primer. This shall be followed by two coats of finishing paint of the
colour specified/approved by the GETCO. Damage to the painting surface during transit/
errection shall be made good by the bidder free of cost before the equipment is finally accepted
by the Engineer- In charge.

For installation work at site, the bidder shall be fully responsible for arranging the supply of
required tools and tackles, welding sets, pipe bending machine, cable crimping tools, labours,
scaffolding, ladders, etc.

The power connection will be provided by GETCO at one point only at the prevailing tariff, from
where the bidder has to arrange for temporary connection and further distribution of supply at
his own cost. Similarly, bidder has to arrange for water by pipeline or by water tankers or by
drilling bore in S/S at his cost.

The installation of energy meter, cut out, switches etc. for construction power shall be as per
prevailing norms of Distribution Department of GETCO. The test report and other requirement
to release the connection shall be as per prevailing rules of Distribution Department of GETCO.

On completion of the installation but before energizing the system, all installation shall be
physically checked and properly tested. These checks and tests shall be conducted by the
bidder under the supervision of Engineer In-charge and bidder shall furnish the final status and
test results shall be made good by the bidder free of cost within contract completion period.

All clamps, brackets, bolts, nuts, screws, markers, ferrules, lugs and glands and other
hardware necessary for erection work, shall include in the scope of work and shall be arranged
by the bidder.

2.0 GALVANISING

All the Equipments/material shall be hot dip galvanized. Wherever it is not feasible to provide
galvanized equipment/material shall be painted to withstand heavily polluted atmospheric
conditions. Painting should be done with two coats of Red oxide & two coats of epoxy paints of
standard make.

3.0 APPROVED MAKES OF EQUIPMENTS /ITEMS OF SUPPLY. (A) FOR 220/66 KV

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Equipment</th>
<th>220 KV</th>
<th>66 KV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Transformers</td>
<td>Areva/ABB/CGL/BHEL / T&amp;R</td>
<td>Areva/ABB/CGL/BHEL/T&amp;R/ EMCO/Siemens/Vijay Electricals</td>
</tr>
<tr>
<td>2</td>
<td>SF6 Out door circuit breaker:</td>
<td>ABB/CGL/ SIEMENS/ Areva</td>
<td>ABB/CGL/ SIEMENS/ Areva</td>
</tr>
<tr>
<td>3</td>
<td>Outdoor isolator</td>
<td>ABB/ S &amp; S/ Siemens/GR Power</td>
<td>ABB/Sterling/ Danke Switchgear/ Siemens/GR Power /S &amp; S</td>
</tr>
<tr>
<td>4</td>
<td>lightening arrester</td>
<td>Areva/Oblum/ CGL/Aditya Birla /Lamco/Elpro</td>
<td>Areva/Oblum/ CGL/Aditya Birla /Lamco/Elpro</td>
</tr>
<tr>
<td>5</td>
<td>Outdoor CT live tank/dead tank</td>
<td>ABB/BHEL/CGL / Areva</td>
<td>ABB/BHEL/CGL /HIVOLT RANS/ MEHRU / Areva</td>
</tr>
<tr>
<td>6</td>
<td>Outdoor PT</td>
<td>ABB/BHEL/CGL / Areva</td>
<td>ABB/BHEL/CGL /HIVOLT RANS/ MEHRU / Areva</td>
</tr>
<tr>
<td>7</td>
<td>CVT</td>
<td>ABB/ CGL / Areva</td>
<td>ABB/ CGL / Areva</td>
</tr>
<tr>
<td>8</td>
<td>Wave Trap</td>
<td>Areva/ BPL</td>
<td>Areva,BPL</td>
</tr>
<tr>
<td>9</td>
<td>Carrier panel with protection Coupler</td>
<td>ABB</td>
<td>ABB</td>
</tr>
<tr>
<td>10</td>
<td>Control &amp; Relay panels</td>
<td>ABB/ Areva/ Easun/ Siemens</td>
<td>ABB/ Areva/ Easun/ Siemens / Maktel</td>
</tr>
<tr>
<td>11</td>
<td>Protective relays &amp;</td>
<td>Areva / ABB/ Easun/ Siemens</td>
<td>Areva / ABB/ Easun/</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 Auxiliary relays</td>
<td>Siemens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 Solid Core Insulators</td>
<td>MIL / WSI / IEC / Saravana/Aditya Birla</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Disc Insulators</td>
<td>WSI / IEC / Aditya Birla</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 Earthing Flats/GI Strips</td>
<td>BM Engg / Associated Power Structure / Mukesh / Baroda Galvenizer or as approved by GETCO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 Clamps Connectors</td>
<td>Gayatri, Nootan, Power line, Tyco.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 Stringing Hardware</td>
<td>Gayatri, EMI, Asbesco</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Battery (Ni - Cd)</td>
<td>Exide/Amco/Standard/ Amara Raja/ HBLnife /Nice/ Aaj Accumulators /Autobat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 Battery Charger</td>
<td>Servilink, Hertz, Power Drive, Electronic Sys. Panva.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Station Transformer (500KVA) 1100/433 V</td>
<td>Registered vender &amp; regular supplier of GETCO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 Static meters</td>
<td>Secure / Elster / L&amp;T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 PVC Insulated Copper wire 650/1100 volt grade Control cable</td>
<td>Vaishali, Suyog, Chandresh, Ravi cable or as approved by GETCO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23 11 KV 3C, XLPE dry / gas cured aluminum Cable</td>
<td>Fort Gloster / Universal CCI / RPG/ Nicco/ Torrent/ Uniflex./Polycab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24 Fitting &amp; Fixture</td>
<td>Philips/ Crompton/ Bajaj/ Genlec/ Wipro</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 Fire Extinguisher</td>
<td>Firex/ Kooverji Devshi/ Vijay / Nitin/New Bharat/Hitesh ind / Kanadia or as approved by GETCO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 Shield Wire</td>
<td>Bedmutha wire / Ramswarup / Himachal Wire /</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes
(i) The Corporate reserves the right to make changes (add or delete names of other makes) in the list during execution of contract.
(ii) If bidder wants to propose additional vendors for any of the items, same shall be stated along with the tender or within 30 days from the date of LOI & decision thereof will be conveyed within 30 days thereafter by GETCO.
(iii) For switch box, outlet box, junction box, MK Box samples should be got approved from engineer – in – charge.

4.0 INSPECTION AND TESTING OF EQUIPMENT

4.1 GENERAL
Manufacturing Progress reviews, inspection & testing of equipment covered under the technical specification shall be carried out by the GETCO’s Authorized Representative at the manufacturer’s works/premises prior to dispatch, to ensure that their quality & workmanship are in conformity with the contract specifications and approved drawings.
4.2 RESPONSIBILITY FOR INSPECTION

Any inspection by the GETCO’s Authorized Representative does not relieve the Bidder from his responsibility of quality assurance and quality control functions.

As such, any approval which the Inspecting Engineer of the GETCO may have given in respect of equipment and other particulars and the work or workmanship involved in the contract (whether with or without test carried out) shall not bind the GETCO to accept the plant & equipment, should it on further tests at site be found not comply, with the requirements of the contract. If required, audit wing of GETCO HO Inspection Department shall also be entrusted with inspection of particular item/equipment received at site.

The bidder is to meet the inspection & testing requirements for the equipment coming under the statutory regulations e.g. weights & measures, safety, IE rules, etc. and submit calibration certificates and documents from appropriate authority to the GETCO Inspecting Engineer for the same, on demand.

4.3 EXTENT OF INSPECTION

The extent of inspection & testing by the GETCO shall vary from equipment to equipment as per design requirements, if necessary. Extent of inspection to be carried out shall be finalized with the Bidder after award of the contract on the basis of scope of supply, technical specification and approved GA drawings. Following standard bought-out items shall be accepted on the basis of manufacturer’s test certificate.

- LV current transformers.
- Standard AC motors up to 10 KW rating and smaller KW rating.
- Push button in manufacture’s standard enclosure.
- Starters in manufacture’s standard enclosure.
- Thermocouples.
- Level switches.
- Pressure switches.
- Pressure gauges.
- Conduits
- Lighting fittings, switches, fans, wires, plug, sockets etc.

4.4 METHOD OF GIVING INSPECTION CALLS

Inspection calls shall be given by the Bidder to Chief Engineer (Projects) GETCO, HO, Baroda in accordance with mutually agreed program with 15 days' clear time for all equipments. Four sets of relevant test certificates and inspection report of the Bidder/ Sub-bidder after satisfactory completion of internal inspection and test shall be submitted along with acceptance/routine test certificate of the tests witnessed by GETCO Inspector.

The GETCO reserves the right to visit at any stage of manufacture at plant and ask for additional inspection & tests if it is found necessary after completion of detailed design & engineering and approval of drawings.

The GETCO or his duly authorized representative shall on giving written instructions to the bidder, setting out any grounds of objection which he may have in respect of the work, be at liberty to reject all or any part of plant/equipment or workmanship which are not in conformity with the contract provisions.

4.5 BIDDER’S RESPONSIBILITY

The Bidder shall provide all reasonable facilities to the Inspecting Engineer of the GETCO to the Bidder’s or their sub-bidder’s premises at any time during contract period, to facilitate him to carryout inspection & testing of equipment during manufacture of equipment. The Bidder shall delegate a representative/coordinator to deal with GETCO on all inspection matters.

The Bidder shall comply with instructions of the GETCO’s Inspecting Engineer fully.
The Bidder shall ensure that the equipment and materials once rejected by the Inspecting Engineer are not reused in the manufacturing of the equipment and materials. Where parts rejected by the Inspecting Engineer have been rectified as per agreed procedures laid down in advance, such parts shall be segregated for separate inspection and approval, before being used in the work.

4.6 INSPECTION WAIVER
For certain standard bought-out items and the products of reputed firms where the GETCO has earlier experience on the quality of their products, the GETCO may consider allowing of inspection waiver for such items. The Chief Engineer (Projects) GETCO, Baroda shall issue approval of inspection waiver certificate after scrutiny of bidder’s internal inspection report, test certificates and other documents. However, it is not binding upon GETCO to give waiver on bidder’s request. GETCO may weigh the important issues like quantity of material, cost of material, importance of material, distance of travel & time of travel required to inspect before deciding the waiver of the inspection.

5.0 OTHER CONDITIONS
Any clarification / amendment necessary, in any or more clauses incorporated in the present A/T, you will have to make a detailed reference to the GETCO latest within ten days from the receipt of A/T. If you fail to do so, no request for any clarification / amendment shall be considered thereafter. Please also note that all the points which need clarification / amendment should be brought out at once. No piecemeal clarification/amendment will be entertained.
ERECTION CONDITIONS OF CONTRACT

1.0 GENERAL

1.1 The following shall supplement the conditions already contained in other parts of these specifications & document and shall govern the portion of the work of this Contract to be performed at Site.

1.2 The Contractor upon signing of the Contract shall, nominate a responsible officer as his representative at Site suitably designated for the purpose of overall responsibility and coordination of the works to be performed at Site. Such person shall function from the Site office of the Contractor during the pendency of Contract.

2.0 REGULATION OF LOCAL AUTHORITIES AND STATUTES

2.1 The Contractor shall comply with all the rules and regulations of local authorities during the performance of his field activities. He shall also comply with the Minimum Wages Act, 1948 and the Payment of Wages Act (both of the Government of India) and the rules made there under in respect of any employee or workman employed or engaged by him or his Sub-Contractor. He shall abide by labour laws.

2.2 All initial registration and statutory inspection fees, if any, in respect of his work pursuant to this Contract shall be to the account of the GETCO. Should any such inspection or registration need to be re-arranged due to the fault of the Contractor or his Sub Contractor, the additional fees to such inspection and/or registration also shall be borne by the Contractor.

3.0 OWNER’S LIEN ON EQUIPMENT

The Owner shall have lien on all equipment brought to the Site for the purpose of erection, testing and commissioning of the equipment to be supplied & erected under the Contract. The Owner shall continue to hold the lien on all such equipment throughout the period of Contract. No material brought to the Site shall be removed from the Site by the Contractor and/or his Sub-Contractors without the prior written approval of the Engineer.

4.0 ACCESS TO SITE AND WORKS ON SITE

4.1 Suitable access to and possession of the Site shall be afforded to the Contractor by the Owner in reasonable time.

4.2 The works so far as it is carried out on the Owner’s premises, shall be carried out at such time as the Owner may approve and the Owner shall give the Contractor reasonable facilities for carrying out the works.

4.3 In the execution of the works, no person other than the Contractor or his duly appointed representative, Sub- Contractor and workmen, shall be allowed to do work on the Site, except by the special permission, in writing of the Engineer or his representative.

5.0 CONTRACTOR’S SITE ESTABLISHMENT

The Contractor shall at all times keep posted an authorized representative for the purpose of the Contract. Any written order or instruction of the Engineer or his duly authorized representative shall be communicated to the said authorized resident representative of the Contractor and the representative shall be available at a stated address for this purpose.
6.0 CO-OPERATION WITH OTHER CONTRACTORS

6.1 The Contractor shall co-operate with all other Contractors or tradesmen of the Owner, who may be performing other works on behalf of the Owner and the workmen who may be employed by the Owner and doing work in the vicinity of the Works under the Contract. The Contractor shall also so arrange to perform his work as to minimize, to the maximum extent possible, interference with the work of other Contractors and their workmen. Any injury or damage that may be sustained by the employees of the other Contractors and the Owner, due to the Contractor’s work shall promptly be made good at the Contractor’s own expense.

7.0 DISCIPLINE OF WORKMEN

The Contractor shall adhere to the disciplinary procedure set by the Engineer in respect of his employees and workmen at Site. The Engineer shall be at liberty to object to the presence of any representative or employee of the Contractor at the Site, if in the opinion of the Engineer such employee has misconducted himself or is incompetent or negligent or otherwise undesirable and then the Contractor shall remove such a person objected to and provide in his place a competent replacement.

8.0 CONTRACTOR’S FIELD OPERATION

8.1 The Contractor shall keep the Engineer informed in advance regarding his field activity plans and schedules for carrying-out each part of the works. Any review of such plan or schedule or method of work by the Engineer shall not relieve the Contractor of any of his responsibilities towards the field activities. Such reviews shall also not be considered as an assumption of any risk or liability by the Engineer or the Owner or any of his representatives and no claim of the Contractor will be entertained because of the failure or inefficiency of any such plan or schedule or method of work reviewed. The Contractor shall be solely responsible for the safety, adequacy and efficiency of plant and equipment and his erection methods.

8.2 The Contractor shall have the complete responsibility for the conditions of the Work-site including the safety of all persons employed by him or his Sub–Contractor and all the properties under his custody during the performance of the work. This requirement shall apply continuously till the completion of the Contract and shall not be limited to normal working hours.

9.0 PROGRESS REPORT

9.1 The Contractor shall furnish three (3) copies each to the Engineer of progress including if any, photographs of the work done at Site.

9.2 The monthly progress report detailing-out the progress achieved on all erection activities shall highlight comparison to the schedules. The report shall also indicate the reasons for the variance between the scheduled and actual progress and the action proposed for corrective measures, wherever necessary.

10.0 MAN-POWER REPORT

10.1 The Contractor shall submit to the Engineer, on the first day of every month, a man hours schedule for the month, detailing the man hours scheduled for the month, skill-wise and area-wise.

11.0 PROTECTION OF WORK

The Contractor shall have total responsibility for protecting his works till it is finally taken over by the Engineer. No claim will be entertained by the Owner or by the Engineer for any damage or loss to the Contractor’s works and the Contractor shall be responsible
for complete restoration of the damaged works to original conditions to comply with the specification and drawings.

12.0 EMPLOYMENT OF LABOUR

12.1 The Contractor will be expected to employ on the work only his regular skilled employees with experience of his particular work. No person below the age of eighteen years shall be employed.

12.2 All traveling expenses including provisions of necessary transport to and from Site, lodging, allowances and other payments to the Contractor’s employees shall be the sole responsibility of the Contractor.

12.3 In case the Owner becomes liable to pay any wages or dues to Labour or any Government agency under any of the provisions of the Minimum Wages Act, Workmen Compensation Act, Contract Labour Regulation Abolition Act or any other law due to act of omission of the Contractor, the Owner may make such payment and shall recover the same from the Contractor’s bills.

13.0 FACILITIES TO BE PROVIDED BY THE OWNER

13.1 Space

Land for Contractor’s Store, Workshop etc.

a) The Engineer shall at his discretion and for the duration of execution of the Contract make available at site, land for construction of Contractor’s field office, workshop, stores, etc. required for execution of the Contract. Any such temporary construction shall be done by the Contractor at his cost.

b) On completion of work the Contractor shall hand over the land duly cleaned to the Engineer. Until and unless the Contractor has handed over the vacant possession of land allotted to him for the above purpose, the payment of his final bill shall not be made.

13.2 Electricity:

Power supply:
The concerned EE (Const.) shall apply for 11KV Transformer Center at the site of new Substation and for which concerned DISCOM shall erect the required line and install the transformer Center, for which, the cost is to be borne by GETCO. Subsequently, the Agency finalized for EPC contract by GETCO, shall apply for temporary connection to the concerned DISCOM Sub-Division paying required Service Charges and Deposit. Such temporary connections to be released on the name of EPC-Contractor on recommendation of the concerned EE (Const.). The power so consumed shall be charged at the prevailing tariff rate

14.0 FACILITIES TO BE PROVIDED BY THE CONTRACTOR

14.1 Tools, tackles and scaffoldings

The Contractor shall provide all the construction equipments; tools, tackles and scaffoldings required for pre-assembly, erection, testing and commissioning of the equipment covered under the Contract. He shall submit a list of all such materials to the Engineer before the commencement of work at Site. These tools and tackles shall not be removed from the Site without the written permission of the Engineer.

First-aid

14.3 The Contractor shall provide necessary first-aid facilities for all his employees, representatives and workmen working at the Site. Enough number of Contractor’s personals shall be trained in administering first-aid.
14.4 Cleanliness

14.4.1 The Contractor shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc. during the period of Contract. The Contractor shall employ enough number of personnel to keep the work area clean. Materials and stores shall be so arranged to permit easy cleaning of the area. In areas where equipment might drip oil and cause damage to the floor surface, a suitable protective cover of a flame resistant, oil proof sheet shall be provided to protect the floor from such damage.

15.0 LINES AND GRADES

All the works shall be performed to the lines, grades and elevations indicated on the drawings. The Contractor shall be responsible to locate and lay-out the works. Basic horizontal and vertical control points will be established and marked by the Engineer at site at suitable points. These points shall be used as datum for the works under the Contract. The Contractor shall inform the Engineer well in advance of the times and places at which he wishes to do work in the area allotted to him so that suitable datum points may be established and checked by the Engineer to enable the Contractor to proceed with his works. Any work done without being properly located may be removed and/or dismantled by the Engineer at Contractor's expense.

16.0 FIRE PROTECTION

16.1 The work procedures that are to be used during the erection shall be those, which minimize fire hazards to the extent practicable. Combustible materials, combustible waste and rubbish shall be collected and removed from the Site at least once each day. Fuels, oils and volatile or inflammable materials shall be stored away from the construction and equipment and materials storage areas.

16.2 All the Contractor's supervisory personnel and select number of workers shall be trained for fire fighting. Enough of such trained personnel must be available at the Site during the entire period of the Contract.

17.0 SECURITY

The Contractor shall have total responsibility for all equipment and materials in his custody/stores, loose, semi-assembled and/or erected by him at Site. The Contractor shall make suitable security arrangements ensure the protection of all materials, equipment and works from theft, fire, pilferage and any other damages and loss.

18.0 PRE-COMMISSIONING TRIALS AND INITIAL OPERATIONS

The pre-commissioning trials and initial operations of the equipment furnished and erected by the Contractor shall be the responsibility of the Contractor as detailed in relevant clauses of Technical Specifications. The Contractor shall provide, in addition, test instruments, calibrating devices, etc and labour required for successful performance of these trials. If it is anticipated that the above test may prolong for a long time, the Contractor's workmen required for the above test shall always be present at Site during such trials.

19.0 MATERIALS HANDLING AND STORAGE

19.1 All the equipment furnished under the Contract and arriving at Site shall be promptly received, unloaded, transported and stored in the storage spaces by the Contractor.

19.2 Contractor shall be responsible for examining all the shipment and notify the Engineer immediately of any damages, storage, discrepancy etc, for the purpose of Engineer's information only. The Contractor shall submit to the Engineer every week a report detailing all the receipts during the week. However, the Contractor shall be solely responsible for any shortages or damages in transit, handling and / or in storage and erection of the equipment at Site. Any demurrage, wharfage and other such charges claimed by the transporters, railways etc, shall be to the account of the Contractor.
19.3 The Contractor shall maintain an accurate and exhaustive record detailing out the list of all equipment materials received by him for the purpose of erection and keep such record open for the inspection of the Engineer in-charge.

19.4 All equipment shall be handled very carefully to prevent any damage or loss. The equipment stored shall be properly protected to prevent damage either to the equipment or to the floor where they are stored. The equipment from the store shall be moved to the actual location at the appropriate time so as to avoid damage of such equipment at Site.

19.5 All electrical panels, control gears, motors and such other devices shall be properly dried by heating before they are installed and energized. Motor bearings, slip ring, commutators and other exposed parts shall be protected against moisture ingress and corrosion during storage and periodically inspected.

19.6 All the electrical equipment such as motors, generators, etc. shall be tested for insulation resistance atleast once in three months from the date of receipt till the date of commissioning and a record of such measured insulation values maintained by the Contractor. Such records shall be opened for inspection by the Engineer.

19.7 The consumable and other supplies likely to deteriorate due to storage must be thoroughly protected and stored in a suitable manner to prevent damage or deterioration in quality by storage.

19.8 All the materials stored in the open or dusty location must be covered with suitable weatherproof and flame proof covering material wherever applicable.

19.9 If the materials belonging to the Contractor are stored in areas other than those earmarked for him, the Engineer will have the right to get it moved to the area earmarked for the Contractor at the Contractor's cost.

19.10 The Contractor shall be responsible for making suitable indoor storage facilities to store all equipment, which require indoor storage. Normally, all the electrical equipment such as motors, control gears, generators, exciters and consumables like electrodes, lubricants etc. shall be stored in the closed storage space. The Engineer, in addition, may direct the Contractor to move certain other materials, which in his opinion will require indoor storage, to indoor storage areas, which the Contractor shall strictly comply with.

20.0 CONSTRUCTION MANAGEMENT

20.1 The field activities of the Contractors working at Site will be coordinated by the Engineer and the Engineer’s decision shall be final in resolving any disputes or conflicts between the Contractor and other Contractors and the tradesmen of the Owner regarding scheduling and coordination of work. Such decision by the Engineer shall not be a cause for extra compensation or extension of time for the Contractor.

20.2 The Engineer shall hold weekly meetings of the Contractor at Site, at a time and place to be designated by the Engineer. The Contractor shall attend such meetings and take notes of discussions during the meeting and the decision of the Engineer and shall strictly adhere to those decisions in performing his works. In addition to the above weekly meeting, the Engineer may call for other meetings either with individual Contractors or with selected number of Contractors and in such a case the Contractors if called, will also attend such meetings.

20.3 Time is the essence of the Contract and the Contractor shall be responsible for performance of his works in accordance with the specified construction schedule. If at any time, the Contractor is falling behind the schedule, he shall take necessary action to make good for such delays by increasing his work force or by working overtime or otherwise accelerate the progress of the work to comply with the schedule and shall communicate such actions in writing to the Engineer, satisfying that his action will
compensate for the delay. The Contractor shall not be allowed any extra compensation for such action.

20.4 The Engineer shall, however, not be responsible for provision of additional labour and/or materials or supply or any other services to the Contractor except for the coordination work between various Contractors if any at site.

21.0 FIELD OFFICE RECORDS

The Contractor shall maintain up to date copies of all drawings, specifications and other Contract Documents and any other supplementary data complete with all the latest revisions thereto. The Contractor shall also maintain in addition the continuous record of all changes to the above Contract Documents, drawings, specifications, and supplementary data, etc. effected at the field and on completion of his total assignment under the Contract shall incorporate all such changes on the drawings and other Engineering data to indicate as installed conditions of the equipment furnished and erected under the Contract. Such drawings and Engineering data shall be submitted to the Engineer in required number of copies.

22.0 CONTRACTOR’S MATERIALS BROUGHT TO SITE

22.1 The Contractor shall bring to Site all equipment, components, parts, materials, including construction equipment, tools and tackles for the purpose of the works under intimation to the Engineer. All such goods shall, from the time of their being brought vest in the Owner, but may be used for the purpose of the works only and shall not on any account be removed or taken away by the Contractor without the written permission of the Engineer. The Contractor shall nevertheless be solely liable and responsible for any loss or destruction thereof and damage thereto.

22.2 The Owner shall have a lien on such goods for any sum or sums which may at any time be due or owing to him by the Contractor, under, in respect of or by reasons of the Contract. After giving a fifteen (15) days notice in writing of his intention to do so, the Owner shall be at liberty to sell and dispose off any such goods, in such manner as he shall think fit and to apply the proceeds in or towards the satisfaction of such sum or sums due as aforesaid.

22.3 After the completion of the Works, the Contractor shall remove from the Site under the direction of the Engineer the materials such as construction equipment, erection tools and tackles, scaffolding etc. with the written permission of the Engineer.

23.0 PROTECTION OF PROPERTY AND CONTRACTOR’S LIABILITY

23.1 The Contractor shall be responsible for any damage resulting from his operations. He shall also be responsible for protection of all persons including members of public and employees of the Owner and the employees of other Contractors and Sub-Contractors and all public and private property.

24.0 INSURANCE

24.1 In addition to the conditions covered under the Clause entitled ‘Insurance’ in General Terms and Conditions of Contract, the following provisions will also apply to the portion of works to be done beyond Contractor’s own/his Sub-Contractor’s manufacturing Works.

24.2 Workmen’s Compensation Insurance

This insurance shall protect the Contractor against all claims applicable under the Workmen’s Compensation Act, 1948 (Government of India). This policy shall also cover the Contractor against claims for injury, disability, disease or death of his or his Sub-Contractor’s employee, which for any reason are not covered under the Workmen’s Compensation Act, 1948. The liabilities shall not be less than:
Workmen’s- Compensation : As per statutory Provisions
Employee’s liability : As per statutory Provisions

24.3 Comprehensive General Liability Insurance

The insurance shall protect the Contractor against all claims arising from injuries, disabilities, disease or death of members of public or damage to property of others, due to any act of omission on the part of the Contractor, his agents, his employees, his representatives and Sub-Contractors or from riots, strikes and civil commotion.

24.4 The hazards to be covered will pertain to all the works and areas where the Contractor, his Sub-Contractors, his agents and his employees have to perform work pursuant to the Contract.

24.5 The above are only illustrative list of insurance covers normally required and it will be the responsibility of the Contractors to maintain all necessary insurance coverage to the extent both in time and amount to take care of all his liabilities either direct or indirect, in pursuance of the Contract.

25.0 UNFAVOURABLE WORKING CONDITIONS

The Contractor shall confine all his field operations to those works, which can be performed without subjecting the equipment and materials to adverse effects during inclement weather conditions, like monsoon, storms etc. and during other unfavorable construction conditions. No field activities shall be performed by the Contractor under conditions, which might adversely affect the quality and efficiency thereof, unless special precautions or measures are taken by the Contractor in a proper and satisfactory manner in the performance of such Works and with the concurrence of the Engineer. Such unfavorable construction conditions will in no way relieve the Contractor of his responsibility to perform the Works as per the schedule.

26.0 PROTECTION OF MONUMENTS AND REFERENCE POINTS

The Contractor shall ensure that any finds such as relic, antiquity, coins, fossils, etc. which he may come across during the course of performance of his Works either during excavation or elsewhere, are properly protected and handed over to the Engineer. Similarly the Contractor shall ensure that the bench marks, reference points, etc, which are marked either with the help of Engineer or by the Engineer shall not be disturbed in any way during the performance of his Works. If any work is to be performed which disturbs such reference the same shall be done only after these are transferred to other suitable locations under the direction of the Engineer. The Contractor shall provide all necessary materials and assistance for such relocation of reference points etc.

27.0 WORK & SAFETY REGULATIONS

27.1 The Contractor shall ensure proper safety of all the workmen, materials, plant and equipment belonging to him or to GETCO or to others, working at the Site. The Contractor shall also be responsible for provision of all safety notices and safety equipment required both by the relevant legislations and the Engineer, as he may deem necessary.

27.4 All equipment used in construction and erection by Contractor shall meet Indian/International Standards and where such standards do not exist, the Contractor shall ensure these to be absolutely safe. All equipment shall be strictly operated and maintained by the Contractor in accordance with manufacturer’s Operation Manual and safety instructions and as per Guidelines/rules of GETCO in this regard.
27.5 Periodical examinations and all tests for all lifting/hoisting equipment & tackles shall be carried-out in accordance with the relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated Laws/Rules in force from time to time. A register of such examinations and tests shall be properly maintained by the Contractor and will be promptly produced as and when desired by the Engineer or by the person authorised by him.

27.6 The Contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need.

27.8 The Contractor shall provide safe working conditions to all workmen and employees at the Site including safe means of access, railings, stairs, ladders, scaffoldings etc. The scaffoldings shall be erected under the control and supervision of an experienced and competent person. For erection, good and standard quality of material only shall be used by the Contractor.

27.9 The Contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the Owner or other Contractors under any circumstances, whatsoever, unless expressly permitted in writing by GETCO to handle such fuses, wiring or electrical equipment.

27.10 Before the Contractor connects any electrical appliances to any plug or socket belonging to the other Contractor or Owner, he shall:
   a. Satisfy the Engineer that the appliance is in good working condition;
   b. Inform the Engineer of the maximum current rating, voltage and phases of the appliances;
   c. Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.

27.11 The Engineer will not grant permission to connect until he is satisfied that;
   a. The appliance is in good condition and is fitted with suitable plug;
   b. The appliance is fitted with a suitable cable having two earth conductors, one of which shall be an earthed metal sheath surrounding the cores.

27.12 No electric cable in use by the Contractor/Owner will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.

27.13 No repair work shall be carried out on any live equipment. The equipment must be declared safe by the Engineer and a permit to work shall be issued by the Engineer before any repair work is carried out by the Contractor. While working on electric lines/equipment, whether live or dead, suitable type and sufficient quantity of tools will have to be provided by the Contractor to electricians/workmen/officers.

27.14 In case any accident occurs during the construction/erection or other associated activities undertaken by the Contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the Contractor to promptly inform the same to the Engineer in prescribed form and also to all the authorities envisaged under the applicable laws.

27.15 The Engineer shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/or property, and/or equipment. In such cases, the Contractor shall be informed in writing about the nature of hazards and possible injury/accident and he shall comply to remove shortcomings promptly. The Contractor after stopping the specific work can, if felt necessary, appeal against the order of stoppage of work to the Engineer within 3 days of such stoppage of work and decision of the Engineer in this respect shall be conclusive and binding on the Contractor.
27.16 The Contractor shall not be entitled for any damages/compensation for stoppage of work due to safety reasons and the period of such stoppage of work will not be taken as an extension of time for completion of work and will not be the ground for waiver of levy of liquidated damages.

27.17 It is mandatory for the Contractor to observe during the execution of the works, requirements of Safety Rules which would generally include but not limited to following:

a) Each employee shall be provided with initial indoctrination regarding safety by the Contractor, so as to enable him to conduct his work in a safe manner.

b) No employee shall be given a new assignment of work unfamiliar to him without proper introduction as to the hazards incident thereto, both to himself and his fellow employees.

c) Employees must not leave naked fires unattended. Smoking shall not be permitted around fire prone areas and adequate fire fighting equipment shall be provided at crucial location.

d) There shall be a suitable arrangement at every work site for rendering prompt and sufficient first aid to the injured.

j) Requirements of ventilation in underwater working to licensed and experienced divers, use of gum boots for working in slushy or in inundated conditions are essential requirements to be fulfilled.

27.18 The Contractor shall follow and comply with all GETCO Safety Rules, relevant provisions of applicable laws pertaining to the safety of workmen, employees, plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservations. In case of any discrepancy between statutory requirement and GETCO Safety Rules referred above, the latter shall be binding on the Contractor unless the statutory provisions are more stringent.

a. Fatal injury or accident-Rs. 1, 00,000/- : These are causing death per person applicable for death/

b. Major injuries or accident causing Rs. 20,000/- injury to 25% or more permanent disablement per person : any person, to Workmen or employees : whomsoever.

Permanent disablement shall have same meaning as indicated in Workmen’s Compensation Act. The compensation mentioned above shall be in addition to the compensation payable to the workmen/employees under the relevant provisions of the Workmen’s Compensation Act and rules framed there under or any other applicable laws as applicable from time to time. In case the Owner is made to pay such compensation then the Contractor is liable to reimburse the Owner such amount in addition to the compensation indicated above.

28.0 CODE REQUIREMENTS

The erection requirements and procedures to be followed during the installation of the equipment shall be in accordance with the relevant Codes and accepted good engineering practice, the Engineer’s drawings and other applicable Indian recognized codes and laws and regulation of the Government of India.
PART-I  SCC

SPECIAL CONDITIONS OF CONTRACT

1.0 General Particulars:

This part of the Bid Document relates to certain specific/special terms and conditions particular to the Contract. The provisions herein are to be read and understood in conjunction with the relevant provisions elsewhere in the General Conditions of Contract (GCC) and Erection Conditions of Contract (ECC). The intent of provisions herein are specific to this contract and are, in general, supplementary to related provisions under GCC and ECC. However, in certain provisions which are contrary to those in GCC and ECC, the provisions in these Special Conditions of Contract will prevail.

2.0 Tender Fee:

The tender fee specified in notice inviting tender is payable by Demand Draft (DD) at Vadodara drawn on any Scheduled Bank in favour of Gujarat Energy Transmission Corporation Ltd. The same will be furnished in Cover-1 of Bid along with EMD (Bid Security).

3.0 Earnest Money Deposit (EMD):(Ref.Cl.12.1 of GCC)

As the estimated cost for this Tender is more than Rs. 100 lacs, the EMD is payable as under:

50 % of EMD by DD in favour of Gujarat Energy Transmission Corporation Ltd. on any Scheduled Bank in Vadodara. Balance 50 % by Bank Guarantee from any Nationalized Bank/scheduled Bank in the format provided herein.

Payment by Cheque/Coop Bank Guarantee/ Company Guarantee is not permissible.

4.0 Declaration by Bidder:

The Bidder shall sign the Declaration enclosed to this SCC and not furnishing the same will make the Bid invalid.

5.0 QUALIFYING REQUIREMENT

Bidder to satisfy all the following requirements:

1. Bidder shall have executed minimum 2 Nos. of Turnkey contracts of with or without supply of power transformer of 220 KV or higher voltage class S/S with SCADA at two different locations within last eight years with State or Central Transmission Utility or major industries. Substations include minimum two nos. of feeder bays, one no. of Transformer bay & Bus coupler bay.

2. At least one Sub-Station out of above commissioned under Turnkey Contract shall be performing satisfactorily for the last one year (Supporting documents/Certificates of original customer to be submitted.) with SCADA. In case of those not having installed with SCADA, technical back up with qualified supplier must be furnished along with tender.

3. Minimum Annual Turnover (MAT) for best three individual years out of last five financial years shall not be less than the estimated amount of this tender.

4. All the Equipments/hard-wares proposed to be supplied shall have valid type test certificates from any accredited NABL laboratory not older than 5 years & must be valid up to the expiry of validity of offer.

5. The bidder shall have valid Electrical Contract License and approved Vendor of GETCO /STU/CTU, registered under Sales-Tax Act, Service Tax Act and should have CPF/PF Registration Certificate.

6. Items / materials proposed to be supplied by bidder of similar or higher rating shall be in service for a period of minimum 3 years. (Supporting documents/Certificates of original customer to be submitted.)
Joint Venture (JV) Bids.
In case a bid is submitted by a joint venture (JV) of two or more firms as partners, joint venture must comply the following minimum criteria.

1. One of the partners of the consortium/ Joint Venture (JV) shall meet all the technical criteria as indicated above.
2. Minimum Annual Turnover (MAT) of the consortium/ Joint Venture (JV) company added together for best three individual years out of last five financial years shall not be less than the estimated amount of this tender. However Minimum Annual Turnover (MAT) for best three individual years out of last five financial years of the lead partner shall be at least 50% & for each other partners shall be at least 33% of the estimated amount of this tender.
3. Further, in case of the bid to be furnish as a JV/Consortium partners then the each JV/Consortium partners has to furnish 5% of the overall tender cost towards the B.G. in addition to the 10% of the Bank Guarantee to be submitted by the lead partner (as security deposit). The terms, conditions & validity of all such BG’s shall be the same.

6.0 Additional Documents:
Apart From various documents to be furnished along with the Bid as required in the GCC and ECC, the following documents/details are to be furnished by the Bidder:

1. Sales Tax/ VAT/ Service Tax Registration No. date/ issuing authority.
2. Regn. No. under Shops & Estt. Act/ issuing authority
4. Experience Record and details of orders pending/ executed for various utilities
5. Last five years Audited Accounts
6. Detail of Manufacturing/Fabrication facilities
7. Factory Registration/license details
8. ‘A’ class contractor’s license with validation.
9. Solvency certificate from Bank (unto 20% of Bid value).

7.0 COMPLETION PERIOD
7.1 Overall Completion periods for this Contract will be 09 (Nine) calendar months from the date of commencement given.

7.2 No mobilization period, idling or stoppage period will be allowed during this period of the Contract.

7.3 The completion date will be deemed to be the date on which all works on the Contract are demonstrated to be complete to the satisfaction of the GETCO/Engineer and is complete in all respects as per the terms and conditions of this Contract.

8.0 Instructions before submitting your bid.
The Bid evaluation shall be carried out on end cost.
1. All the drawings, i.e. elevation, side view, plan, cross sectional view etc., in AutoCAD DXF format and manuals in PDF format, for offered item shall be submitted by successful bidder. Also the hard copies as per specification shall be submitted.
2. The bidder shall submit Quality Assurance Plan (QAP) & Field Quality Plan (FQP) with the technical bid.
3. The bidder must fill up all the point of GTP for offered item/s. Instead of indicating “refer drawing, or as per IS/IEC”, the exact value/s must be filled in.
4. All the points other than GTP, which are asked to confirm in technical specifications must be submitted separately with the bid.
5. Please note that the evaluation will be carried out on the strength of content of bid only. No further correspondence will be made.
6. The bidder shall bring out all the technical deviation/s only at the specified annexure.
7. Design and engineering of SLD (Single line Diagram), layout drawing, sectional view, BOQ, DSLP, Earth mat design, lighting & Illumination calculation of switchyard and all drawings shall be carried out by successful bidder.
8. Preparing of Erection Key Diagram (EKD) indicating all the quantity required for successful erections, testing and commissioning of 220 & 66 KV S/S & shall be submitted for approval. All equipments, material shall be supplied as per approved EKD (Drawing/BOQ).

9. Bar chart with completion period of 09 months in MS Project shall be submitted.

10. After the commissioning of S/S, contractor shall arrange thermoscaning of entire switchyard & submit detailed reports. However this will not be contractual hold point. GETCO reserves the right to ask the contractor to conduct the same on entire S/S under full load condition.

11. Various PLCC equipments shall be supplied and erected as per specification & instruction of Engineer In charge to complete the PLCC channel, for communication, speech and protection.

12. Consider all connectors to be used in switch yard shall be of Fire wedge type.

9.0 Addendum to the technical specifications.

The addition /alternations mentioned here under will supersede the related clauses of respective technical specifications, if differs with original clause.

1. All the hard wares, conductor accessories, clamps and connector used in switchyard erections shall have corona free performance and related type tests as per standards shall have to be submitted.

2. Contact resistance measurement for all the isolators of 220 & 66 KV class shall have to be measured in presence of site in charge of GETCO and complete record should be included in as built drawing/document set.

3. Design of structure to suit the equipment being supplied by bidder is to be carried out according to base dimension of foundation standardized by ‘GETCO’ which will be given to successful bidder.

4. G.I. Lattice structure i.e. Gantry structures (Towers & Beams) to be supplied by bidder shall be as per GETCO’s standard drawing, which will be given to successful bidder. Quantity given in tender is tentative to quote on weight basis.

5. All SF-6 Circuit Breaker shall be supplied with gas filling hose with necessary adaptors.

6. Protection and SAS panels shall be provided with front side opening only.

7. All the equipments including 220V battery charger, 48V battery charger, LT panel Board DG set panel shall be specifically SCADA compatible.

8. 220V battery charger shall be with rating of 80A Float and 50A Boost capacity suitable for charging 350 AH NiCad battery set irrespective of the rating mentioned in tech spec. All other spec shall apply as it is.

9. 220V battery set shall be of 350AH capacity irrespective of the rating mentioned in tech spec. All other spec shall apply as it is.

10. LT panel board shall be with two bus arrangement with bus coupler .Ratings of bus coupler shall be as per Incomer C.B.

11. All the LT power cable above 70 sq mm shall be XLPE type.

SCADA & Protection Architecture

1. It shall enable local station control via a PC by means of human machine interface (HMI) and control software package, which shall contain an extensive range of Supervisory Control And Data Acquisition (SCADA) functions. HMI must be capable of handling all the future equipments over and above present scope of equipments supply.

2. It shall include communication gateway, intelligent electronic devices (IED) for bay control and inter IED communication infrastructure. The IEDs, LIU and switches for 220kV yards, IEDs for two bays (unless specified) can be housed in one Kiosk along with its LIU & switches.

3. For both 220KV & 66KV systems, Peripheral Units (PU) for Bus-bar protection scheme shall be placed in appropriate kiosks and Central Unit (CU) shall be placed in central kiosk. Separate fiber optic cables shall be provided to have connectivity between all PUs and CU for Bus-bar protection scheme of 220 KV & 66KV systems.
4. The communication gateway shall facilitate the information flow with remote control center. The bay level intelligent electronic devices (IED) for protection and control shall provide the direct connection to the switchgear without the need of interposing components and perform control, protection, and monitoring functions.

5. The RTU gateway shall fetch data, required by SLDC from HMI PC which is connected on ring network on IEC61850 & shall be capable of sending this data to SLDC on 60870-5-101. The bidder shall verify the data transfer compatibility with our existing SCADA system ALDC-Jambuva. Flow of required data up to SLDC is sole responsibility of bidder.

6. PLCC panels are to be installed in Carrier Room near Control Room. Yards’ IED should communicate with PLCC panels through GOOSE commands.

7. The static energy meters with 0.5 class accuracy (Elster make) and ABT meters with 0.2 class accuracy (Secure/L&T make) shall be installed as per our ‘GA panel diagram’ for each bay. The data from these meters shall be polled in Data acquisition PC installed in Control room in the format prescribed by GETCO. The necessary software and hardware shall be provided to achieve the same.

11. Training
Successful bidder has to arrange for training at their expense at GETCO premises covering erection, O&M, testing & commissioning aspect of transformer C.B, C/R panels, one day for each equipment. This training program is to be organized prior to erection of these equipments. Complete training materials in soft & hard copy shall be given to participants.

12. Progress Report (Refer Cl. No. 9.00 of ECC)
The successful bidder shall submit progress report monthly for supply activities & fortnightly for erection activities along with site photographs.

13. Guarantee (Refer GCC Cl.No. 37.1)
Commencement of Guarantee period could be considered in phase manner as per owner’s requirement to commission portion of job as per scope & specification on priority. Site in charge accordingly in such condition will issue TOC and relevant clause of guarantee shall be applicable.

15. The delivery of the PLCC equipments to be used other than at 400KV Asoj S/S shall be made as per the dispatch instructions given by the Corporate Office GETCO.

16. Service Tax (refer GCC Cl.No.35.8)
Service tax applicable on This Contract (Erection contract) – refer clause 35.8 of GCC, will be as per prevailing government rules.

17. Part-III Price Bid Annexure- A Stringing Breakup for 400KV Asoj S/S, Bidder has to fill the item rate for all items for supply in Stringing breakup Annexure-A to compare the cost/span as narrated in Main BOQ Supply & Erection Schedule for 400KV Asoj S/S.

Note: In price bid for supply item not mention, only that equipment will be supplied by GETCO.
18. Penalty Clause:

1. In case if any safety related fatal Elect. / Mech. accident occurred to any employee of agency or outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency shall be penalized as under:

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Amount of Contract in Rs.</th>
<th>Penalty amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Up to ( \rightarrow ) 1 Lac</td>
<td>Rs.5000/-</td>
</tr>
<tr>
<td>2</td>
<td>Above 1 Lac to ( \rightarrow ) 10 Lacs</td>
<td>Rs.25000/-</td>
</tr>
<tr>
<td>3</td>
<td>10 to ( \rightarrow ) 100 Lacs</td>
<td>Rs.100,000/-</td>
</tr>
<tr>
<td>4</td>
<td>&gt; 100 Lacs</td>
<td>1.0 %</td>
</tr>
</tbody>
</table>

2. Reporting;

2.1 The contractor shall inform concerned Ex. Engineer Const/TR in writing within 24 hours of fatal/Non-fatal accident occurred to human being.

2.2 The GETCO investigating officer findings in to accident shall be final and binding to the contractor /Agency.

3. Safety Requirement:

3.1 Kick off Meeting exclusively for safety shall be done in each contract in presence of contractor’s site in charge and supervisor. Safety document shall be handed over and vital safety norms and key points of safety related to project shall be explained and recorded for commitment by erection contractor. Such records are mandatory for clearing first erection bill.

3.2 During site visit by GETCO official of Executive Engineer and above rank, the following checks during execution of work shall be covered.

3.21 Safety equipments available and utilize.
- (a) Helmet.
- (b) Safety belt.
- (c) Safety shoes.
- (d) Live line Voltage detector

3.22 Safety procedure adopted.
- (a) Permit to work
- (b) Earthing at the place of work.
- (c) Adequate supervision.

3.23 T & P physical Check. (Healthiness and Quality)
- (a) P.P. rope.
- (b) Wire rope and sling.
- (c) Earthing rod

3.3 If above-mentioned safety requirements found violated in any of the above three conditions shall attract penalty of Rs.1000/-per occasion. (Max.Rs.3000/-for violation of three conditions)

During subsequent visit, if violation is found, then double penalty shall be deducted from the bill of the Contractor/Agency.
Tender No : GETCO/CE(P)/EE(R&M)/DRM1/Tender EPC/2012/Asoj

Declaration

Tender for Supply, Erection, Testing and commissioning of 220kv & 66kv Transformer / Feeder bay extension with equipments, materials on EPC excluding all civil works at 400kv Asoj S/S as per tender specifications complete along with all the tender Terms and Conditions.

In connection with above subject, I / we confirm the following:

a) I/ We, the undersigned, have read and understand the Tender Specification No. GETCO/CE(P)/EE(R&M)/DRM1/Tender EPC/2012/Asoj

b) The supply & erection price components in the bid are firm prices in line with Tender Specifications and shall stand valid till completion of the Contract, if awarded.

c) I/We declare that our bid is strictly in line with Tender Specifications and there is no deviation. Further, I / we also agree that additional conditions / deviations, if any found in bid, the offer shall be out rightly rejected without assigning any reason thereof.

Signature of Authorized representative of Company / Agency

NAME: ______________________
STATUS: ______________________
Name of BIDDER
VENDOR MUST FILL UP BELOW DETAILS & SHOULD PLACE AT THE TOP OF THE TECHNICAL BID.

1. PRICE
   [FIRM ONLY]

2. Service TAX / VAT
   [IN PERCENTAGE]
   Please quote your
   a. Service Tax Registration No. & Date.
   b. VAT Registration No. & Date.
   c. CST No. & Date
   d. PAN No. & Date
   e. PF Registration No.

3. PENALTY TERMS AGREE
   (Please specify YES / No.)

4. SECURITY TERMS AGREE
   (Please specify YES / No.)

5. P.B.G. TERMS AGREED (Wherever applicable)
   (P.B.G. – Performance Bank Guarantee)

6. PAYMENT TERMS AGREE
   (Please specify YES / No.)

7. work involved

8. TELEPHONE NOS. & FAX NO.

9. AUTHORISED PERSON OF THE FIRM

10. NAME OF THE PROPRIETOR, PARTNERS, DIRECTORS
    [AS THE CASE MAY BE], ALONG WITH ADDRESS, TELEPHONE, FAX NO. Etc.

11. If Vendor Registration is Done
    (Please Furnish the details of Vendor Registration No.)

Signature of Authorized representative of Company / Agency
NAME: _______________________
STATUS: ______________________
Name of BIDDER

Seal & Signature of Bidder
This agreement is made at Vadodara, the _________________ day of __________ in the Christian year Two Thousand Five between
_________________________________________________________ (herein after referred to as “THE CONTRACTOR” which expression shall unless excluded by or repugnant to context include its successors or permitted assigns) of the one part and the Gujarat Energy Transmission Corporation Limited, having their Corporate Office at Race Course, Vadodara, (hereinafter called “Corporation” which expression shall unless excluded by or repugnant to the context include its successors or assigns) of the other part.

“WHEREAS” the aforesaid Corporation has accepted the tender of the aforesaid contractors for ____________________________________________________
_____________________________________________ as per Corporation’s Order No. ______________________________________ hereinafter called “The works” and more particularly described enumerated or referred to in the specification, terms and conditions prescribed in the order letter, covering letter and other letters and schedule of price which for the purpose of identification have been signed by Shri ____________________________________________ on behalf of the Contractors and by ______________________________________________ on behalf of the Corporation, a list where of is made out in the schedule hereunder written and all of which said documents are deemed to form part of this contract and included in the expression ‘The Works” wherever herein used, upon the terms and subject to the conditions hereinafter mentioned.

AND WHEREAS THE GETCO has accepted the tender of the contractor for the work of Supply, Erection, Testing and commissioning of 220kv & 66KV equipments, materials on EPC basis excluding all civil works at 400kv Asoj S/S of Gujarat State for the sum of Rs._______________ (Rupees_______________________________) upon the terms and subject to the conditions herein mentioned.

NOW THIS AGREEMENT WITNESSES AND IT IS HEREBY AGREED AND DECLARED THAT :

1. The contractors shall do and perform all works and things in this contract mentioned and described or which are implied therein or there from respectively or are reasonably necessary for the completion of the works as mentioned and at the times, in the manner and subject to the terms conditions and stipulations contained in this contract, and in consideration of the due provision, executions, construction and completion of the works agreed to by the contractors as aforesaid, the Corporation doth hereby covenant with the contractor to pay all the sums of money as and when they become due and payable to the contractors as aforesaid under the provisions of the contract. Such payment to be made at such times and in such manner as is provided by the contract.

2. The conditions and covenants stipulated hereinbefore in this contract, are subject to and without prejudice to the rights of the Corporation to enforce penalty for delays and / or any other rights whatsoever including the right to reject and cancel on default or breach by the contractors of the conditions and the covenants as stipulated in the general conditions, specifications, forms, or tender schedule, drawing, etc. attached with Corporation’s Order No. ________________

The contract value, extent of works / supply, completion / delivery dates, specifications and other relevant matters may be altered by mutual agreement and if so altered shall not be deemed or construed to mean or apply to affect or alter other terms and conditions of the contract and the general conditions and the contract so altered or revised shall be and shall always be deemed to have been subject to and without prejudice to said stipulation.

SCHEDULE

List of documents forming part of the contract:
1) Corporation’s Tender Spec. No. GETCO/CE(P)/EE(R&M)/DRM1/Tender EPC/2012/Asoj
2) Corporation’s Contract booklet – “Tender & Contract of Works”.
3) Corporation’s A/T No
4) A/T Acceptance letter no.
5) Memorandum & Article of Association.
6) Board Resolution authorizing person to sign on behalf of firm.
In witness whereof the parties hereto have set their hands and seals this day and month year first above written.

Signed, Sealed and Delivered by

_______________________________________
for and on behalf of M/s. ________________________________

In the presence of, signature with names and
Address: _________________________________________

_______________________________________

_______________________________________

1) _______________________________________

_______________________________________

2) _______________________________________

Signed, Sealed and Delivered by

_______________________________________
for and on behalf of Gujarat Energy Transmission Corporation Limited,
Sardar Patel Vidyut Bhavan,
Race Course, Vadodara -390 007.

In the presence of, signature with names and
Address: _________________________________________

_______________________________________

1) _______________________________________

_______________________________________

2) _______________________________________

_______________________________________
(BANK GUARANTEE FOR E.M.D./ON NON JUDICIAL STAMP PAPER OF Rs.100/-)

BANK GUARANTEE

WHEREAS Messer's _____________________________________________________________ (Name and address of the firm) having their registered office at ___________________________________________ (address of firm’s registered office) (hereinafter called the “Tenderer”) wish to participate in the Tender No. _____________________________________________________________ for _____________________________________________________________ (Supply / Erection / Supply and Erection / work) of _____________________________________________________________ (Name of the material / equipment / work) for Gujarat Energy Transmission Corporation Limited (hereinafter called the “Beneficiary”) and

WHEREAS a Bank Guarantee for Rs. ____________________ (Amount of E.M.D.) valid till ___________________________________________________________________________________________ (mention here date of validity of this guarantee which will be 6 months beyond initial validity of Tenderer’s offer), is required to be submitted towards Earnest Money Deposit by the tenderer along with the tender.

We, _____________________________________________________________ (name of the Bank and address of the Branch giving the Bank Guarantee), having our registered office at _____________________________________________________________ (address of Bank’s registered office) hereby give this Bank Guarantee No. ____________ dated ____________ and hereby agree unequivocal and unconditionally to pay within 48 hours on demand in writing from the Gujarat Energy Transmission Corporation Limited or any officer authorized by it in this behalf any amount not exceeding Rs. ____________________ (amount of E.M.D.) (Rupees ____________________ ____________________) to the said Gujarat Energy Transmission Corporation Limited on behalf of the Tenderer.

We _____________________________________________________________ (Name of the Bank) also agree that withdrawal of the tender or part thereof by the tenderer within its validity or non-submission of Security Deposit by the Tenderer within one month from the date tender or a part thereof has been accepted by the corporation would constitute a default on the part of the tenderer and that this Bank Guarantee is liable to be invoked and encashed within its validity by the beneficiary in case of any occurrence of a default on the part of the Tenderer and that the encashed amount is liable to be forfeited by the beneficiary. This agreement shall be valid and binding on this Bank up to and inclusive of ____________ (mention here the date of validity of Bank Guarantee) and shall not be terminated by notice or by change in the constitution of the Bank or the firm of Tenderer or by any reason whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alterations made, given, conceded with or without our acknowledge or consent by or between the Tenderer and the Gujarat Energy Transmission Corporation Limited. NOTWITHSTANDING anything contained hereinbefore our liability under this Guarantee is restricted to Rs. ____________________ (amount of E.M.D.) (Rupees ____________________ ____________________) (in words). Our guarantee shall remain in force till ____________________ (date of validity of the guarantee).

Place :
Signature of the Bank's authorized Signatory
Date : _______ with official seal.
PERFORMA OF BANK GUARANTEE FOR PERFORMANCE
BANK GUARANTEE NO: __________________________

To,
The Gujarat Energy Transmission Corporation Ltd
Sardar Patel Vidyut Bhavan,
Race Course,
Vadodara

We ______________________________________ hereby agree unequivocally and unconditionally to pay within 48 hours on demand in writing from the Gujarat Energy Transmission Corporation Ltd., or any Office authorized by it in this behalf, any amount up to and not exceeding Rs. ___________________________ (Rupees ___________________________) to the said Gujarat Energy Transmission Corporation Ltd., on behalf of M/s. ___________________________ who have entered into a contract for the specified below
A/T No. ___________________________ dt. ___________________________ for work ____________ of ___________________________ (name of work) ___________________________.

This Agreement shall be valid and binding on this Bank upto and inclusive of date ___________________________ and shall not be terminable by notice or by change in the constitution of the Bank or the Firm of contractors or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alterations made, given, conceded or agreed with or without our knowledge or consent, by or between parties to the said written contract.

NOTWITHSTANDING anything herein before our liability under this Guarantee shall be restricted to Rs. ___________________________ (Rupees ___________________________ ) (only.)

The Guarantee shall remain in force until _______________

PLACE:
Date:

Signature of authorised
Authority of Bank
Seal of Bank

Seal & Signature of Bidder
INDEMINITY BOND IN STAMP PAPER OF RS.100/-

KNOW ALL MEN BY THESE PRESENTS that we, Messers ___________________ (hereinafter called “the Contractor” which expression shall, where the context so admits, include their heirs, executors, administrators and legal representatives, successors and permitted assigns) are hereby held and firmly bind unto the Gujarat Energy Transmission Corporation Ltd (hereinafter called “the GETCO” which expression shall, where the context so admits, include its successors and assigns) to refund the full amount of materials supplied by the GETCO under the terms and conditions of A/T No. _______________ ________________________________________ dated ________________ against any loss damage or deterioration of whatsoever nature occurs to said materials supplied by the GETCO and which are in the custody of the contractor at their works site, on behalf of the GETCO, at ____________ (name of line) and / or if any of the said materials, when inspected by any officer authorised by the GETCO in this behalf, is found to be damaged, lost, deteriorated in quality or quantity, the contractor hereby agrees to bind himself to indemnity and at all times keep indemnified the GETCO against all loss, damage and deterioration to any material supplied by the GETCO during his custody and to pay the full amount forthwith to the GETCO and here by within 30 days the market value of such materials which is lost, damaged or deteriorated in full to the GETCO and shall also hereby authorise the GETCO to deduct the said sum from any sum due to the contractor or any sum which may at any time become due to the contractor under the above referred contract or any other contract entered into by the contractor with the GETCO.

AND WHEREAS the contractors do hereby agree to be responsible for the safe custody and protection and preservation of the said materials against all risks, excluding war risks and against loss, damage and deterioration of whatsoever nature in respect of the said materials while it remains in the custody and possession of the contractor.

AND WHEREAS the said materials shall at all times be open for inspection by any officer authorised by the GETCO

Now the conditions of the above written bond are such that the contractor shall pay the full amount forthwith to the GETCO in the event of loss, damage or deterioration or whatsoever except due to circumstances arising out of war in respect of the materials supplied by the GETCO and shall fully and effectually indemnify and keep indemnified to the GETCO against such loss, damage and deterioration in time.

The contractor shall keep the said materials open at all times for inspection by the officers authorised by the GETCO and produce at anytime when demanded.

THE WITNESS WHEREOF : We the

Said M/S ______________________________

(Signature of contractor)

(Seal of Firm)

hereto signed at ___________________

this day _________________________

In the presence of

1. ________ Name ___________________ (Signature)
   ___________ address __________________________

2. ________ Name ___________________ (Signature)
   ___________ address __________________________

Seal & Signature of Bidder 75
To,
The Chief Engineer (Projects)
Gujarat Energy Transmission Corporation Ltd.
Sardar Patel Vidyut Bhavan
Race Course
VADODARA – 390007.

Sub: Supply, Erection, Testing and Commissioning of various equipments & materials for new 220 / 66 KV system excluding all civil works at existing 400 KV Asoj Sub-station.

Ref: AT No:

We hereby acknowledge, agree and accept your A /T under reference above with terms and conditions mentioned therein.

(Authorized Signature)

Designation ______________________
PROFORMA OF POWER OF ATTORNEY BY THE JOINT VENTURE/CONSORTIUM MEMBERS
(Non Judicial Stamp of Rs.100/- duly notarized)

KNOW ALL MEN BY THESE PRESENTS THAT WE PARTIES whose details are given hereunder:

1. M/s. __________________________(A company incorporated in the companies Act 1956// A partnership Firm registered under the Indian partnership Act 1932/ Proprietary ship concern solely owned, controlled and managed by etc.) having its registered office at ________________________
   (Complete address)
2. ---do---
3. ---do---

have entered into a Joint venture agreement for the purpose of securing the work of GETCO vide tender notice No.__________ and having our Registered office/Head Office/ at (hereinafter called the Consortium/ Joint venture which expression shall unless repugnant to the context or meaning thereof, include is successors, administrators and assigns).

We, the above said parties, through this power of attorney mutually agrees to hereby constitute, nominate and appoint M/s. ------------
aCompany _________________ (name of leader) of
and having its registered/Head Office at, as our duly constituted lawful Attorney (hereinafter call “Attorney” or “Authorised Representative” or Partner In charge or Leader of Consortium/ Joint venture) to exercise all or any of the powers for and on behalf of the Consortium/ Joint venture Company Members in regards to Specification No: ___________________
the bids for which have been invited by Gujarat Energy Transmission Co., Ltd., (herein after referred to as GETCO or the “Corporation”).

i) To submit proposal and participate in the aforesaid bid specification of the Corporation on behalf the “Consortium/ Joint venture Members”.

ii) To negotiate with the Purchaser the terms and conditions for award of the contract pursuant to the aforesaid bid and to sign the Contract with the Corporation for and on behalf of the “Consortium / Joint venture Members”.

iii) To do any other act or submit any document related to the above.

iv) To receive, accept and execute the contract for and on behalf of the “Consortium / Joint venture Members”.

v) In the event of an order placed on M/s. _______________________
The work shall be executed by all the members as per Bidding Documents and as per the schedule hereunder:

### Schedule of Completion

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Completion Schedule</th>
<th>Name of Sub-Station</th>
<th>Name of Bidder/Member of consortium/ Joint venture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The work of line/SS, to be executed by the Consortium/Joint venture members against order placed will be directly executed by the individual members/JVC to the GETCO and in the event of making payments, against individual invoices/bills or otherwise, will make the payment directly in the bank account of above named joint venture company, duly registered thereby. GETCO will issue necessary certificate/documents in the name of joint venture company and/or the lead party, as per rules and regulations.

vi) The Corporation may place only one order on the Leader of Consortium/ Joint venture incorporating the names of all the Consortium/ Joint venture Members and schedule of completion against each member, We, the members / parties confirm that commitments made and liabilities incurred by our Leader shall be binding on all the parties of the JVC duly formed (Consortium/ Joint venture Members) and all of us shall be jointly and severally responsible for the faithful execution of the contract and discharge the liabilities jointly and severally.

vii) In the event of award of contract, we the Consortium/ Joint venture members shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and in accordance with specifications and within the schedule time.

viii) The leader of Consortium/ Joint venture is hereby authorized to incur liabilities and receive instructions for and on behalf of any and all the consortium/ Joint venture members and entire execution of the contract.

ix) In the event of any default in executing contract, that is in execution of work in accordance with specifications and within the schedule time by any Member/Members of Consortium/ Joint venture, the remaining other member / members shall accept the liability and execute the contract in full as provided in clause –vii of this agreement.

x) We all the members of the consortium / Joint venture agree and undertake that in the event of any change in the constitution of any Consortium/ Joint venture Member the rights and obligations of the Consortium / Joint venture shall continue to be in full force without any effect thereof.

xi) We, all the members of consortium / Joint venture undertake that we shall not cancel or amend this agreement unilaterally and without the consent of GETCO and such consent will be obtained in writing. We also undertake that this agreement will be duly registered in any Registrar’s office located in -------

It is already understood that the lead party /Leader shall ensure performance of the contract(s) and if one or more above said party (Member) fail to perform their
respective portion of the Contract (s) the same shall be deemed to be a default by all the above said parties /JVC.

It is expressly understood that this Power of Attorney shall remain valid binding and irrevocable till completion of the Warranty period in terms of the Contract. All the parties/members of above said Joint venture company hereby agrees and undertakes to ratify and confirm all the whatsoever the said Attorney/Authorized Representative/Leader quotes in the bid, negotiates and signs the Contract/other necessary documents, with GETCO and /or proposes to act on behalf of the Consortium / Joint venture company by virtue of this power of Attorney/Agreement and the same shall bind the said Joint venture company and its authorized representatives, as if done by itself.

IN WITNESS THEREOF the Members constituting the Consortium/ Joint venture as aforesaid have executed these presents on this ____ day of ________under the Common Seal (s) of their companies.

For and on behalf of the Members of Consortium/ Joint venture.

____________________
Attorney holder / Leader party
(Signed, seal by the company)

1) Signature, Name, Designation & Seal of each Company/Parties
2)-------- Do  ----------
3)--------Do  ----------
Signed and seal in the presence of witness.
1. Signature ……………………………….
   Name ……………………………….
   Designation ………………………….
   Occupation ………………………….

2. Signature ……………………………….
   Name ……………………………….
   Designation ………………………….
   Occupation ………………………….

Seal & Signature of Bidder
JOINT VENTURE AGREEMENT
(On 100 Rs. Stamp paper duly notarized)

For

NAME OF WORK: A/T No.:-

Detail of work :-

This Joint Venture agreement is made in India at _________ on _________ day of ________, 20___ by and between M/s. __________________________, a company duly incorporated under the laws of Indian Companies Act of 1956 having its registered office at __________________________ (INDIA) (hereinafter referred to as the “First Party”/Lead Party) duly represented by Shri __________________________ as the One Party.

AND

M/s. __________________________, a company incorporated under the Indian Companies Act of 1956 and having its registered office at __________________________ (hereinafter referred to as the “Second Party” duly represented by Shri. __________________________ as the other party.

The expressions, “First Party” & “Second party” shall wherever the context admit mean and include their respective successors in interest and permitted assigns and hereinafter referred to individually as the “Party” and collectively as the “PARTIES’.

WHEREAS The Gujarat Energy Transmission Corporation (GETCO) (Hereinafter referred to as the Client”) has invited tenders Notice No.__________ Dtd.____________ for“__________________________________________________________

(Hereinafter referred to as “The Work”).

AND WHEREAS Party of first part and party of second part have entered into an agreement, by setting up of a joint venture company (hereinafter called “JVC”) to be set up in India for the purpose of securing the above said work of GETCO and to execute the work jointly and severally in the event of award of the contract.

In consideration of the mutual agreement and undertaking hereunder set out the parties to this agreement have granted the rights and accepted the obligations as follows:-

NOW THIS JOINT VENTURE AGREEMENT WITNESSETH AS FOLLOWS:

1) INCORPORATION AS PER LAW OF INDIA:

The parties (as above) agrees that they shall undertake to incorporate and form a Joint Venture Company (JVC) to be registered in India, under the Companies Act, 1956, by the name and style __________________________ and will have its registered office at __________________________ (India) or such other place/s as the PARTIES may mutually agree upon. The principal place of business of these JVC shall be at __________________________ (India). During incorporation of company and thereafter, the parties will obtain all the necessary Govt. approvals, formalities etc. and ensures GETCO about its legal compliance, as per law of India, as and when found necessary.
2) **Participation:**

The participating interest of the members of the JVC, as mutually decided, will be apportioned as ____% approximately for First Party and ____% approximately for the Second Party in the event of award of the contract to the JVC.

3) **Lead Partner:**

It is agreed by the parties that M/s. _________________ Co. (i.e. party of _________________ part) shall be treated as LEAD PARTY, for the said WORK of contract of GETCO. Thus remaining parties (as above) agrees to authorize the _________________ (name of leader of lead party) to exercise all or any of the powers in respect of the said WORK for and on behalf of all the parties as above, which shall be binding on all the parties jointly and severally.

4) **Billing & Payment:**

It is agreed by the parties that it shall open an exclusive bank account in the name of said JVC _______________. Parties will submit their bills/invoices in the name of said JVC, or individually, whereas, GETCO in the event of payment will deposit the amount in there duly registered JVC account, only.

5) **Liabilities:**

All the parties of this joint venture agreement agrees and confirms that in the event of getting the award of the contract through successful bid, the execution of the work shall be complied efficiently and within stipulated time and that all the parties of this agreement shall be jointly and severally liable to comply and execute the work.

6) **Bank Guarantees:**

It is agreed between the parties that Bid Bond (in the form of Demand Draft and Bank Guarantee) and Performance Guarantee shall be arranged by them in their participation ratio, or as mutually agreed upon all the parties & affirmed by GETCO.

7) **ARBITRATION:**

In the event of any dispute arising between the parties and GETCO in respect of execution of this WORK, such disputes shall be resolved by arbitration to be held in GUJARAT in accordance with the Indian Arbitration Act. These agreement will be governed by and construed in accordance with Indian Law.

IN WITNESS WHEREOF THE PARTIES hereto has put their respective hands and seal on this day, month and year herein above written.

SIGNED SEALED AND DELIVERED _________________

By within named (Party of the FIRST PART/LEAD PARTY)

SIGNED, SEALED AND DELIVERED _________________

By within named (Party of the SECOND PART)

WITNESSES: (Name and address of the witnesses)

1 _________________

2 _________________

Seal & Signature of Bidder
CERTIFICATE OF TECHNICAL COMPLIANCE

TENDER NO. ___________________________ DUE ON _____
FOR ________________________________ PROJECT

We, M/s. __________________________ hereby certify that there is no deviation to the Technical specifications and amendments, if any, against this tender.

We further confirm to submit Guaranteed Technical Particulars, valid type test reports, drawings, calculations, etc., as per requirements of BOQ, Technical Specifications and relevant IS/IEC; for offered items/equipments/materials, in the event of an order on us, within commencement period without affecting delivery schedule and without any price implication to GETCO.

We confirm to provide valid authorization and service back up guarantee from OEM for all offered items/equipments/materials, in the event of an order.

NAME & SIGNATURE OF AUTHORISED PERSON

COMPANY’S ROUND SEAL

DATE:
PLACE:
PARTY TO TAKE NOTE PLEASE BEFORE SUBMITTING THEIR BANK GUARANTEES

1. A/T no. and date to be written on every page, of Bank Guarantee & its Extension.

2. If B/G amount is more than Rs.50, 000/- , kindly take sign of two bank officer with their respective Employee code no.

3. Valid Confirmation letter of the concerned Bank in an approved format should be attached with every Bank Guarantee & its Extension.

4. Stamp paper should be valid & recent one and date of issuing of stamp paper should not be beyond six months, in any case.

5. Round seal and signature of two Bank officers should be affixed on every B/G paper.

➢ As per the directives of Govt. Of Gujarat only following banks are authorized to undertake government business;

1. All public sector banks.
2. Private sector banks are:
   - IDBI BANK
   - AXIS BANK
   - HDFC BANK
   - ICICI BANK
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED

Safety Related Check List during Construction of Sub - Station

Name of Sub Stn. / Switching Stn.: .................................................................................................

Name of Contractor: ....................................................................................................................

Contractor License / Registration No.: ........................................ Validity ....................................

Name of Sub Contractor: ...........................................................................................................

A. SUB STATION CIVIL WORKS:

<table>
<thead>
<tr>
<th>SN</th>
<th>Description of Activity</th>
<th>Feedback</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Check Sub station area has been protected by constructing boundary wall all around the sub station to avoid entry of passerby / unauthorized person or animal in the sub station.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>De watering arrangement is available (If necessary)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Check proper / adequate arrangement is made for extension of electric supply. (Proper size of cable, Use of fuse, No loose connection and no naked wire connection to Pumps / Illumination / Electric compressors etc. if applicable).</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Check arrangement of illumination at construction site is</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Check dumping of Excavated soil (Minimum 1.5 Mts. Or half the depth of the pit which ever is more from the edge of the it.)</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Check Shoring &amp; Shuttering to protect the loose rock / soil against fall, (if required).</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Check lone worker is not be allowed to work in the excavated</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Ensure Laying of temporary cables used for operation of Machines used during construction should not cause any danger for electrocution of persons / animals.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Ensure that before undertaking excavation, the soil has been tested and in case of availability of any explosive / dangerous gas, necessary arrangement must be made to remove / dilute</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>The positions of underground installations such as sewers, water pipes and electrical cables has been verified and in case of their existence, they must be isolated before further excavation works to ensure Human Safety.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Check that the scaffolds are not overloaded in any case. Scaffolds are to be erected and supported properly.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Stability of the soil of the excavated pit for safe working is to be checked and certified by a competent person daily before start of work. A register at site is maintained where competent person can certify accordingly. No manhole should remain uncovered during night &amp; off days.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>SN</td>
<td>Description of Activity</td>
<td>Feed back</td>
<td>Remarks</td>
</tr>
<tr>
<td>----</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------</td>
<td>----------</td>
</tr>
<tr>
<td>13</td>
<td>Check the provision of sufficient strong ladder of suitable length is available near the working place during excavation.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Check if any permission is required from local statutory body before excavation.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Check for No undercutting / toe cutting in soil.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Check after excavation the work should be speedily completed without delay and back filling done at the earliest.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Check for any possibility of seepage of water from nearby pond / river has been estimated and taken care of.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Check to avoid slide / collaps of side walls of excavated pit, the excavation is to be done in trapezoidal cross - section.</td>
<td>Yes/No.</td>
<td></td>
</tr>
</tbody>
</table>

(a) II): Safety precaution during Storage, Handling and Use of Blasting Material:

<p>| 1  | Check that the adequate arrangement is made for the storage of blasting material at safe place. (Temporary Magazine is to be installed observing all norms) as per Indian Explosive Act. | Yes/No.   |          |
| 2  | Check that the blasting materials is handled by licensed blaster with due care at site. (If applicable)                                                                                                             | Yes/No.   |          |
| 3  | Check smoking is prohibited in the vehicle carrying                                                                                                                                                                | Yes/No.   |          |
| 4  | Check that the Blaster is holding proper license issued by the appropriate authority. As per Indian Explosive Act.                                                                                              | Yes/No.   |          |
| 5  | Check that the length of the fuse wire used during blasting operation is adequate.                                                                                                                                  | Yes/No.   |          |
| 6  | Check while transportation, no unauthorized person is allowed in vehicle carrying explosives.                                                                                                                        | Yes/No.   |          |
| 7  | Check that the loading and unloading of explosives is being done carefully.                                                                                                                                       | Yes/No.   |          |
| 8  | Check explosives and detonators or blasting caps is not being transported in the same vehicle.                                                                                                                      | Yes/No.   |          |
| 9  | Check while transportation the detonators and explosives are not carried loose or mixed with other materials.                                                                                                   | Yes/No.   |          |
| 10 | Check surplus explosives shall not be stacked near working area during loading / unloading.                                                                                                                          | Yes/No.   |          |
| 11 | Check explosives shall not be held in hands when lightening the fuse.                                                                                                                                             | Yes/No.   |          |
| 12 | Check that blasting in the open has been carried out during the fixed hours every day or on fixed days in the week so that the public at large should know about this.                                                  | Yes/No.   |          |
| 13 | Check that arrangement has been made to display sufficient warnings / sign board to enable the people to get out of the blasting area to get off the danger zone.                                                   | Yes/No.   |          |
| 14 | Check that the danger zone has been suitably cordoned off.                                                                                                                                                    | Yes/No.   |          |
| 15 | Check during blasting operations begin / after the firing of explosives shall follow the loud siren.                                                                                                                 | Yes/No.   |          |
| 16 | Check that during blasting operation, Labour / Workmen / Passerby are at safe places and arrangement is made to inform public by                                                                                  | Yes/No.   |          |</p>
<table>
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<th>SN</th>
<th>Description of Activity</th>
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<tbody>
<tr>
<td>17</td>
<td>Check that PPEs i.e. Safety helmets, Safety Shoes, is used by blaster and their gang members during blasting and also the persons supervising the blasting operations.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>For covered blasting ensure placement of cover plates of proper thickness and sufficient numbers of sand filled bags.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Ensure that permission for blasting has been obtained from the appropriate authority.</td>
<td>Yes/No.</td>
<td></td>
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</tbody>
</table>

(b) III) Safety during casting of Foundation / Concreting :

<table>
<thead>
<tr>
<th>SN</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check construction materials are stacked at safe place and also does not cause any danger. (Away from pit) i.e. 1.5 Mtrs. or half the depth of the pit which ever is more.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Check proper arrangement of illumination at Construction Site of Sub station is available.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Check that the Concreting Mixer/ Vibrator machines etc are placed at a safe place (Not very near to any pit at least 1.5 Mtrs. from the edge of the pit) to avoid transfer of vibrations and should be operated by skilled persons.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Check proper / adequate arrangement is made for extension of electric supply. (Proper size of cable, Use of fuse, No loose connection for De watering Pumps / Illumination / Electric compressors etc. if applicable).</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Check for laying of temporary cables used during construction activities should not cause any danger for electrocution to persons / animals.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>All bracing, struts and shuttering in excavations shall be adequately secured so as to prevent their accidental displacement.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ensure Shuttering and timbering has been made as detailed in I:S: 3764 for protecting the loose rock / soil against fall.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Check for proper placing of Hydraulic jacks with stability and constant watch of these instruments (which are continuously loaded) to avoid any danger of displacement causing sever accident.</td>
<td>Yes/No.</td>
<td></td>
</tr>
</tbody>
</table>

B. Safety during Structure, Equipment Erection & Cable laying etc. :

<table>
<thead>
<tr>
<th>SN</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check Back filling done prior to erection activity.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Check the derrick used before structure erection has been checked for adequate strength / size and no joints are permitted.</td>
<td>Yes/No.</td>
<td>Test certificate is required apart from visual inspection.</td>
</tr>
<tr>
<td>3</td>
<td>Check that the pulleys used before structure erection / Equipment Erection has been checked for adequate strength / proper size (diameter), also in case of open type pulleys proper locking arrangements like providing of Safety Pin is made Safe working load should be punched.</td>
<td>Yes/No.</td>
<td>Test certificate is required apart from visual inspection.</td>
</tr>
<tr>
<td>SN</td>
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<tr>
<td>4</td>
<td>Check the ropes used before structure erection / Equipment Erection has been checked for adequate strength / physical condition (free from break of strands and knots etc.)</td>
<td>Yes/No.</td>
<td>Test certificate is required apart from visual inspection.</td>
</tr>
<tr>
<td>5</td>
<td>Check that the lifting tools and tackles are in healthy condition and has been tested periodically.</td>
<td>Yes/No.</td>
<td>Test certificate is required apart from visual inspection.</td>
</tr>
<tr>
<td>6</td>
<td>Check permission has been obtained from Aviation Authority for erection of Lightning Mast which comes in the vicinity of flying zone. (Where necessary)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Check that all Nuts and Bolts are fitted in the structure before undertaking the job of other section of the structure and are tightened.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Check area has been cordoned off to prevent injuries to unauthorized persons from hitting against structural component or falling in the excavated pits.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Check that danger plates are available on all the equipment &amp; structures in the switchyard.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Check demarcation of feeder is done for Double Circuit</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Check only erection team members are allowed to stand near the structure / Equipment while erection is in process and should wear the safety helmet / Safety</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Check proper guying arrangement has been made while lifting structure / Equipment, if necessary.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Check that proper arrangement is made while lifting the structure members and fixing them at height i.e. Proper size and strength of the hook used for lifting the structure members.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Check sufficient numbers of guys are made while lifting the assembled structure / heavy loads and also avoiding use of single sheeve pulleys while lifting the assembled structure / heavy load.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Check arrangement has been made for equipment identification.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Check that required painting made on tower falling in the vicinity of aviation zones. (Where necessary.)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Check no live wires nearby. Take shut down if necessary.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Check the structure has been permanently earthed.</td>
<td>Yes/No.</td>
<td>&quot;</td>
</tr>
<tr>
<td>19</td>
<td>Check crane are preferably be used for erection of pipe structure in the sub station building works (if required.)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Check all safety procedures for erection work like use of safety helmets, Safety belts, use of guy wires, lowering / lifting of tools by rope etc. are strictly adhered to during structure erection works is in progress in the switchyard.</td>
<td>Yes/No.</td>
<td></td>
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<tr>
<td>21</td>
<td>Check that correct size of spanner (Box or ring type) as</td>
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<tr>
<td>22</td>
<td>Check working area of the structure has been demarcated during erection.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Check heavy structures are lifted with crane with proper safety.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Only polypropylene ropes are to be used to tie the aluminium tube / Bus bar since this is soft material and will not damage aluminium tube / Bus bar during erection.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Ensure that R clips in insulator caps are fixed properly to avoid disconnection of insulator discs.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Ensure that all the necessary security pins (split pins) are fixed.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Check all nuts of jumper fittings are properly tightened and live metal clearance have been maintained as per GETCO specification.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>In case of tension fitting dead end joint dimensions before &amp; after the compression are checked and approved.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>No damaged component of any hardware fitting should be used on works.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Length of jumpers has been measured properly to give it a parabolic shape. No sharp bend should exist.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Check surge counter erection facilitates proper reading and that earthing is done with minimum bends.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Check Surge monitor has been earthed by connecting it to main earth mat with (G I Flat 75 x 12 mm) and earth pit separately as per drawing.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Check the alignment of earth switch with isolator, earth switch of isolator is put into operation and the contacts are cleaned. After completion of pre commissioning checks and formats are dully filled and signed.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Ensure that the rubber beddings are kept in good condition.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Check CT has been placed on the support structure very carefully and all nuts have been tightened. Earthing is done as per drawing.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Ensure the lattice structure of CT has been earthed at two points.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Check the marshalling box in the switchyard has proper illumination arrangement.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Check the capacitor unit is short circuited &amp; earthed, until erection and commissioning works are being done on CVT. (The capacitor get charged by the electrical fields in the vicinity and they keep these charges for a long time, which can be dangerous to human life. Hence the shorting of capacitor unit is necessary). It should be removed before tests /use.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Check Fuses in the marshaling box are OK.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
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<tr>
<td>40</td>
<td>Check proper earthing of CVT tank has been done.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Check all housing accessories, mounting stools including bolts / Nuts for fixing Line Trap and insulators are of non magnetic material.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Check H.F. point of CVTs on which the coupling device is not mounted has been earthed.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>Check the remaining CVTs have been earthed thro' coupling device.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Cable drums after visual inspection should be stored preferably in the covered area. Cable ends should be sealed with plastic caps.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Ensure each cable and conduit run should be tagged with cable identity numbering as per the approved that appear in the cable and conduit schedule.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>The tag should be of aluminium plate with ID number punched on it and securely attached to the cable conduit by not less than two turns. Cable tags should of rectangular shape for power cables and of circular shape for control cables.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Check underground cable markers should project 150 mm above ground and spaced at an interval of 30 Mts. They shall be located on both sides of road and drain crossing and also at every change in direction.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Check cable tags should be provided inside the switchgear, motor control centres, control and relay panels etc. wherever required for cable identification, where a number of cables enter together through a gland</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>The cable (power and control) between LT stations, Control room, DG set building and fire fighting pump house should be laid in the buried cable trenches. In addition to the above, for lighting purpose also, buried cable trench can be used in outdoor area.(as per Technical specification of specific contract)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Cable route and joint markers and RCC warning covers should be provided wherever required. The voltage grade of cables should be engraved on the marker.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Tray Identification Number on each run of trays at an interval of 10 Mtrs should be painted.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>In case the outer sheath of a cable is damaged during handling / installation, the same should be repaired to the satisfaction of the site. In case any other part of a cable is damaged, the same should be replaced by a healthy cable. Power cables should be at the top most layers. The armor of control cable is to be earthed.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>All cable termination should be appropriately tightened to ensure secure and reliable connections. All the exposed parts of cable lugs should be covered with tape,</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Power and control cables are laid on separate cable trays</td>
<td>Yes/No.</td>
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<tr>
<td>55.</td>
<td>Co-axial cable is laid separately from power cable.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>56.</td>
<td>All cable trays, racks and metallic ducts have been grounded by connecting each to earth / mat. (As per Scheme)</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>57.</td>
<td>Check sections of cable trays have been bridged by copper jumpers/ GI to retain continuity of earthing. (As per Scheme)</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>58.</td>
<td>Check earthing of panel is done by the erection contractor for connecting it with switchyard earth mat. (As per Scheme)</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>59.</td>
<td>Auxiliary bus wiring for AC and DC supplies, Voltage Transformer circuits, annunciation circuits and other common services is provided near the top of the panels running through out the entire length of the panels.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>60.</td>
<td>All internal wiring to be connected to external equipment is terminated on terminal blocks, preferably vertically mounted on the side of each panel.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>61.</td>
<td>Check whether Mimic Diagram is available preferably made of anodized aluminium or plastic of approved fast colour material and screwed on to the panel that can be easily cleaned.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>62.</td>
<td>Check the panels all equipment mounted on front and rear side as well as equipment mounted inside are provided with individual name plates with equipment designated engraved.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>63.</td>
<td>Check on top of each panel on front as well as rear side, large and bold name plates are provided for circuit / feeder designation.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>64.</td>
<td>Check all front mounted equipments are provided at the rear with individual name plates engraved with tag numbers corresponding to panel internal wiring to facilitate easy tracing of the wiring.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>65.</td>
<td>Check the name plates mounted directly by the side of the respective equipments should not be hidden by equipment wiring.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>66.</td>
<td>Check availability of 240V single phase 50 HZ, AC socket with switch suitable to accept 5 Amps and 15 Amps pin round standard plug, is provided in the interior of each cubicle with ON-OFF switch for connection of hand lamps.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>67.</td>
<td>Check that panels are provided with a fluorescent lighting fixture rated with 240 Volts single phase, 50 Hz supply for the interior illumination of the panel during maintenance. The fittings are complete with switch fuse unit and switching of the lighting is controlled by the respective panel door switch. Adequate lighting with fuse unit is also provided for the corridor in control panels.</td>
<td>Yes/No</td>
<td></td>
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</tbody>
</table>
68. Check control panels are provided with necessary arrangements for receiving, distributing, isolating and fusing of DC and AC supplies for various control, signalling, lighting and space heater circuits. The incoming and sub circuits are separately with switch fuse units. **Yes/No.**

69. Check panels are provided with a space heater rated for 240 V, single phase, 50 Hz, AC supply for the internal heating of the panel to prevent condensation of moisture. **Yes/No.**

70. Check all panels are equipped with an earth bus securely fixed **Yes/No.**

71. Check when several panels are mounted adjoining each other, the earth bus is made continuous with necessary connectors and clamps for this purpose. **Yes/No.**

72. Check provision is made for extending the earth bus bars to adjoining panels on either side. **Yes/No.**

73. Check provision is made on each bus bar of the end panels for connecting earthing grid. **Yes/No.**

74. Check all metallic cases of relays, instruments and panel mounted equipment including gland plates are connected to the earth bus by copper wires of specified size. **Yes/No.**

75. Check the colour code of the earthing wire is green. **Yes /No.**

76. Check that earthing made with equipment is with Nuts and Bolts i.e. For such connection lugs should be pressed and tightened to the terminals through Nuts and Bolts. **Yes /No.**

77. Check that no equipment is mounted on the panel doors. **Yes/No.**

78. Check each switch should bear clear inscription identifying its function. **Yes/No.**

79. Check those who have sufficient knowledge of steel structural job have been employed in steel structural job. **Yes/No.**

80. Check necessary instruction has been communicated by supervisor before start of the day's works to workmen under his control. **Yes/No.**

81. Storing of equipments is to be made properly to avoid any accident during handling. **Yes /No.**

82. Check all Nuts and bolts are properly raised or lowered preferably using closed loop pulleys and gully bags / hand bags tied at the end for carrying nuts and bolts. **Yes /No.**

83. Check that Fire resistant sheets are used before entrance of control cable in control room. **Yes/No.**

84. Check air compressor tubing properly tightened. **Yes/No.**

85. Check all carrying connectors / clamps properly tightened. **Yes/No.**

### c. CONDUCTOR LAYOUT DURING CONSTRUCTION STAGE

<table>
<thead>
<tr>
<th>SN</th>
<th>Description of Activity</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Check all members are fixed in structure and ensure proper size of Nuts and Bolts are rigidly tightened and punching / tacking / tack welding is done in towers / structures before undertaking conductor laying job.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Ensure proper scaffolding arrangements made during laying of conductor (While Power Line crossing etc).</td>
<td>Yes/No.</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>3</td>
<td>Ensure that all members are fitted in structure before undertaking conductor laying work.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ensure that the discharge rod is electrically tested before use.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ensure whether the structure is properly earthed.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Only nylon or polypropylene ropes should be used during conductor laying in vicinity of live overhead lines.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ensure that PTW has been taken from the concerned authority when extension of existing sub station is under execution.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ensure that Winch, Pulleys etc. are properly earthed.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>For LT lines, check whether special persons are posted at each point of isolation till return of permit (PTW) if positioning of person is not possible then it is to be seen that all the point of isolation has been kept in the locked position till the work is in</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Whether the network of LT lines has been thoroughly checked and precautions taken against inadvertent charging.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Check that proper arrangement is made / available for grounding LT lines coming across during conductor laying.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Check the provision and proper positioning for the guying and back staying (Where necessary).</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Check working of hydraulic crimping machine.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Check before and after crimping, dimensional changes in clamps and are in accordance with the drawings and</td>
<td>Yes/No</td>
<td></td>
</tr>
</tbody>
</table>

**D Switchyard Earthing during Construction Stage:**

<table>
<thead>
<tr>
<th>SN</th>
<th>Description of Activity</th>
<th>Feedback</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check that while earthing conductor crossing the road is laid 300 mm below the road or at greater depth depending upon the site conditions.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Check that while laying the Earthing conductor in outside area is buried at least 600 mm below the furnished ground level.</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Check that the earthing pads have been provided for the apparatus / equipments at accessible position.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Check all steel columns, metallic stairs are connected to nearby earthing grid conductor by two earthing leads.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Check of earthing of lightening fixtures, receptacles switches, junction boxes lighting conduits has been done by a separate earthing conductor.</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Check that the railway tracks within switchyard area has been earthed at a spacing of 30 Mts. / specified distance and also at both ends</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Check cable trays has been connected to earthing flat of 50X6 mm / specified sized earthing flat at intervals specified in approved drawing.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Check that this earthed flat is earthed at about 30 Mts.</td>
<td>Yes/No</td>
<td></td>
</tr>
</tbody>
</table>

6. Seal & Signature of Bidder
<table>
<thead>
<tr>
<th>SN</th>
<th>Description of Activity</th>
<th>Feed back</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>All accessories in transformer and reactor like radiators tank, cooling banks etc are connected to the earthing grid at minimum two points.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Check metallic conduits are not used as earth continuity</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Check flexible earthing connectors should be provided for the moving parts.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Check sheath and armor of single core power cable is earthed at switchgear end and equipment side.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Check contact surface of earthing pads for jointing free from scale, paint, enamel, grease, rust or dust.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Check that light poles, junction boxes on the poles, cable and cable boxes / glands, lockout switches etc. are connected to the earthing conductor running along with the supply cable which intern is connected to the earthing grid conductor at a minimum of two points inside the switchyard fence.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Check earthing conductor which is generally buried 2000 mm outside the switchyard fence. All the gates and every alternate post of the fence are to be connected to earthing grid.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Check the megger used for measuring soil resistivity is calibrated with desired accuracy.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>The earth resistivity has been measured in dry weather</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Check the earthing of Transformers and Shunt reactor, earth pits are constructed as per relevant standard / approved</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Check that the measured value of combined earth resistance should be less than 1 Ohm.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Check that for earth electrode and individual earth pits, this value should not be more than one Ohm.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Check all non current carrying metal parts shall be effectively earthed by two separate and distinct earth connections (Indian Electricity Rule 61,67)</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Check that all pylon supports in the Fire Fighting HVSW system has been earthed to the earthmat.</td>
<td>Yes /No.</td>
<td></td>
</tr>
</tbody>
</table>

**E: General Points common for all activities during Excavation, Casting of Foundation**

Erection of structures, laying of Conductor, storage and transportation of material:

<table>
<thead>
<tr>
<th>SN</th>
<th>Description of Activity</th>
<th>Feed back</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check Supervisors / Workmen have been provided with required healthy PPEs. Like (Safety helmet / Safety Belts / Safety Shoes / Gum Boot etc. as applicable)</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Check availability of First Aid Box with required medicines at site.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Check Site Instruction register is available at site.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ensure Supervisor / Gang Leader always issues instruction to the Workmen including contractor labour before start of work.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ensure supervisory staff from GETCO is available at site during construction.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Check all driver and plant operators are holding valid driving license.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Check the vehicle for rescue is available at site.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Ensure engaged labour are aware of the job.</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Ensure supervisor / workmen engaged in the field are aware of First Aid Techniques (Such as in case of Electric Shock, Fall from the height, Snake bite and the person rescued from buried under the debris, rescue of person from drowning etc.)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Check for availability and to keep a record of nearby Hospital / Doctor in case of emergencies arises.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>While transporting heavy consignment of conductor / EW drums from central store to site by the use of Cranes, Truck, Tractor. The safety aspect for construction and failure of brake system of moving machinery is to be checked.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>At least one dry powder type of portable fire extinguisher shall be provided especially where explosive or blasting agents are used for excavation. (If applicable)</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Check the competence (Qualification / experience) of supervisor / gang leader of contractor.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>Wire mesh rolls shall be secured in order to prevent dangerous recoiling action.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Proper unloading arrangement has been made at site (Preferably with crane) to unload the material.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>After unloading the material visual inspection of the materials has been carried out along with the erection contractor to check that the material has not been damaged or not (Galvanizing is proper or not) As per approved Field Quality.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>While transporting the heavy laden equipment like transformer / Reactor by road from Rly Stn to Sub station check whether for all safety precaution taken. Like safe lifting capacity of crane, safe load on culvert / Bridge / Nala / Drain etc. and working plan is available at site with specific reference to safety e.g. local earthing, skilled &amp; experience manpower, proper T&amp;P, strength and LT wires / HT wires interrupting the height of equipment and the required clearance maintained etc. Permission to be obtained from concerned authority if required. &quot;Impact recorder on the equipment like Reactor / Transformer must be installed during transportation&quot;</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>Check that the adequate and safe means of access and access has been provided for all work places as far as reasonably practicable and is being used by the workers.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Check proper illumination is provided at the work places and their approaches including passage ways.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>Check that the lamps have been protected by suitable guards where necessary to prevent danger, in case the lamp breaks.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>21.</td>
<td>Check loose materials which are not required for use shall not be placed or left so as dangerously to obstruct work places or passage ways.</td>
<td>Yes /No.</td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>Check all projected nails has been removed or bent over to prevent injury.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>23.</td>
<td>Check scrap, waste and rubbish has not been allowed to accommodate on the site or the scrap materials has been stored at the isolated place.</td>
<td>Yes/No.</td>
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<tr>
<td>24.</td>
<td>Check that the worker while working at height scaffold materials, waste materials and tools are not being thrown by them to cause injury to any person.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>Check whether contractor has procured required quantity of PPE considering maximum number of erection gangs deployed at one time. Check the quantity of PPEs.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>26.</td>
<td>Check that the PPEs required by the workmen are being utilized by them always.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td>Check the worker is under constant surveillance by the other person while working at height.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td>Check construction site has been barricaded for unauthorized persons / animals.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>29.</td>
<td>Check that lifting appliances and machines and vehicles used on the construction site is of sound material and good quality and is free from patent defects and is strong enough to withstand safely the load and stresses to which they will be subjected.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>Check structures and equipment is being used only for the purpose for which they were intended.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>31.</td>
<td>Check equipment has been operated by the competent person.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>32.</td>
<td>Check portable ladders shall not exceed 9 Mts. in length, otherwise may cause danger while climbing of person and back legs shall be equally braced.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>33.</td>
<td>Check unskilled labour are not utilized for skilled jobs and only experience persons are deployed for erection.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>34.</td>
<td>Check a well planned and documented procedure for the entire Construction works of Sub station shall be prepared by contractor and get approved from GETCO for distribution to Contractors' field staff and GETCO for follow up.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>35.</td>
<td>Check no metallic measuring tapes are being used during charged bays.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>36.</td>
<td>Check metal ladders are not being used in the vicinity of exposed live electrical equipment.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>37.</td>
<td>Check one bore well is available for water supply in case Municipal Construction supply is not available</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>38.</td>
<td>Check charged area of a yard should be properly fenced off.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>39.</td>
<td>Check ladders / lengthy articles / lengthy equipments etc. should always be carried in horizontal position.</td>
<td>Yes/No.</td>
<td></td>
</tr>
<tr>
<td>40.</td>
<td>Check insurance by contractor for the labour to provide adequate coverage for any accident etc.</td>
<td>Yes/No.</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS IF ANY:**

<p>| | | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>Signature</td>
<td>Signature</td>
<td>Signature</td>
</tr>
<tr>
<td>Name:</td>
<td>Name:</td>
<td>Name:</td>
</tr>
<tr>
<td>Designation:</td>
<td>Designation:</td>
<td>Designation:</td>
</tr>
</tbody>
</table>
CONFIRMATION OF DETAILS OF BIDDER

Bidders are required to furnish following information specifying YES / NO

1) Whether the Bid is on Item rate basis as called for. Yes / No

2) Whether rebate furnished is in percentage basis as called for. Yes / No

3) Whether the Bid is submitted by RPAD./Speed post Yes / No

4) Whether all pages of Bid Specifications are sealed and signed by the Bidder. Yes / No

5) a) Whether the Bidder is registered with GETCO Yes / No

   b) In case of “Yes”, please furnish following details:
      i) Registration Letter No. & date.
      ii) Class of Registration
      iii) Validity

   c) Whether Bidder is having PF Code No. Yes / No

6) a) Whether EMD paid. (DD / BG) Yes / No

   b) In case “Yes”, furnish details Yes / No

7) Whether following documents as specified are submitted.
   a) Human Resources detail. Yes / No
   b) Availability of tools, equipments etc. Yes / No
   c) Details of orders executed / on hand Yes / No
   d) Financial capability. Yes / No
   e) Experience as specified. Yes / No
   f) Latest Income-tax certificate Yes / No
   g) Company’s Articles Of Association Yes / No
   h) Details Of Partners / Directors Yes / No
   i) B.R./P.A. Authorising Person Yes / No
   j) Power of Attorney of Consortium Members Yes / No.

Signature of Authorized Representative of Company/Agency

NAME:__________________
STATUS:_______________

Name of tendering Company
**Submit with QR Bld**

**COMPLETION PERIOD**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description of work-Name of S/S</th>
<th>Period in working months from date of LOI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Commencement</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
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<td>2</td>
<td></td>
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<td>5</td>
<td></td>
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<td>6</td>
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</tbody>
</table>

(Signature)

Designation _____________________
Submit with QR Bld

FINANCIAL CAPABILITY

Name of the Bidder: ________________________________________________
________________________________________________
________________________________________________

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details</th>
<th>Amount Rs. In lacs</th>
<th>Remarks</th>
</tr>
</thead>
</table>

2. A Scheduled Banker’s Certificate of present Solvency be attached and last Income Tax certificate
3. Annual turnover for last five years.
4. Price of the biggest job carried out.

Signature of Authorized Representative

Company / Agency

NAME : ______________________
STATUS : ______________________

Name of tendering Company
Submit with QR Bld

LATEST INCOME-TAX CLEARANCE

CERTIFICATE

(TO BE SUBMITTED SEPARATELY WITH THE OFFER)

DETAILS OF PARTNERS / DIRECTORS WITH THEIR ADDRESS

Name of the Bidder: ___________________________________________________

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Designation</th>
<th>Name (address)</th>
<th>Residence</th>
<th>Working Place</th>
</tr>
</thead>
</table>

Signature of Authorized Representative

Company / Agency

NAME: ______________________

STATUS: ______________________

Name of tendering Company

_______________________________
Submit with QR Bld

MEMORANDUM / ARTICLES OF ASSOCIATIONS OR CONSTITUTION OF FIRM WITH THE NAMES OF PARTNERS / DIRECTORS.

(TO BE SUBMITTED SEPARATELY WITH THE OFFER DULY SEALED AND SIGNED.)
Submit with QR Bld

ATTESTED COPY OF RESOLUTION OF PARTNERS / BOARD / AUTHORITY ACCEPTABLE BY LAW OF THE FIRM AUTHORIZING A PARTICULAR PERSON TO SIGN TENDER AND RELATED DOCUMENTS ON BEHALF OF THE COMPANY.

(To be submitted separately with the offer duly sealed and signed.)
### DETAILS OF HUMAN RESOURCES

Details of the human resources available with the bidder for the successful performance of the contract.

**Name of the Bidder:**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Designation</th>
<th>Name</th>
<th>Qualification</th>
<th>Professional experience &amp; details of works carried out.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Works Manager</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Marketing Manager</td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>Design Manager</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td>Number of Skilled Employees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Number of unskilled Employees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Quality Control Manager</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Signature of Authorized Representative

Company / Agency

NAME: ______________________

STATUS: ______________________

Name of tendering Company

______________________________
I / WE, confirm that following documents are attached with the QR bid of the offer.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Details</th>
<th>Confirmation (Tick √ any one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Firm's details as per “Annexure –1”</td>
<td>YES / NO</td>
</tr>
<tr>
<td>2</td>
<td>DETAILS OF THE EXPERIENCE Annexure II</td>
<td>YES / NO</td>
</tr>
<tr>
<td>3</td>
<td>Performance certificates as per “Annexure-3”</td>
<td>YES / NO</td>
</tr>
<tr>
<td>4</td>
<td>Certificate of Important Instruction &amp; certificate-A</td>
<td>YES / NO</td>
</tr>
<tr>
<td>5</td>
<td>Board’s technical specification duly signed and with seal of firm.</td>
<td>YES / NO</td>
</tr>
<tr>
<td>6</td>
<td>ANNEXURE - ‘X’</td>
<td>YES / NO</td>
</tr>
</tbody>
</table>

Seal of the Firm  
Signature of the Tenderer  
Date:

NOTE: ALL THE DOCUMENTS SHOULD BE PROPERLY FILED AND SHOULD BE GIVEN FLAG MARKING FOR IDENTIFICATION.
# ANNEXURE - 1
## DETAILS OF THE FIRM

### NAME OF THE FIRM:

<p>| | | | | | |</p>
<table>
<thead>
<tr>
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<tr>
<td>A</td>
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</tr>
<tr>
<td>1</td>
<td>Address of Registered Office</td>
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</tr>
<tr>
<td>2</td>
<td>Contact Personal</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>Designation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Residential Address</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Phone Nos. (Office and Residential)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6</td>
<td>Fax No.</td>
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<td>Address of works</td>
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<td>3</td>
<td>Designation</td>
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<td>4</td>
<td>Residential Address</td>
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<td>Phone Nos. (Office and Residential)</td>
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<td>6</td>
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ANNEXURE - 2

DETAILS OF THE EXPERIENCE FOR Turnkey contract IN LAST Eight YEARS FROM THE DUE DATE OF TENDER:

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Name of S/S</th>
<th>Order reference no. &amp; Date</th>
<th>Order value</th>
<th>Length of line</th>
<th>Date of completion</th>
<th>Order fully executed Yes/No</th>
<th>Status if order under execution</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>Gujarat Energy Transmission Corporation Ltd., GETCO:</td>
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<td>B</td>
<td>OTHER STATE ELECTRICITY BOARDS:</td>
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<td>C</td>
<td>PRIVATE FIRMS:</td>
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</tbody>
</table>
**ANNEXURE – 3**  
**LIST OF PERFORMANCE CERTIFICATES SUBMITTED WITH THE TECHNICAL BID**

<table>
<thead>
<tr>
<th>SR NO</th>
<th>Name of the Authority by whom certificate is issued</th>
<th>Reference No. &amp; Date</th>
<th>Details of items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

6. Seal & Signature of Bidder
Firms Letter Head

CERTIFICATE – “A”

I / We__________________________________ authorized signatory of
M/s.____________________________________ hereby certify that
M/s.____________________________________ is not related with other firms who have
submitted tenders for the same items under this inquiry / Tender.

Seal of the Firm                      Signature of the Tenderer

Place:                            With Designation.

Date:
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
BARODA

Date:

INTEGRITY PACT
OUR ENDEAVOR

To create environment where Business Confidence is built through Best Business Practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the ultimate benefit of society a nation.

<table>
<thead>
<tr>
<th>GETCO COMMITMENT</th>
<th>PARTY’S COMMITMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>To maintain the highest ethical standards in business and professional</td>
<td>Not to bring pressure / recommendations outside GETCO to influence its decision.</td>
</tr>
<tr>
<td>Ensure maximum transparency to the Satisfaction of stakeholders.</td>
<td>Not to use intimidation, threat, inducement or Pressure of any kind on GETCO or any of it’s employees under any circumstances.</td>
</tr>
<tr>
<td>To ensure to fulfill the terms of agreement / contract and to consider objectively the viewpoint of parties.</td>
<td>To be prompt and reasonable in fulfilling the contract, agreement, legal obligations.</td>
</tr>
<tr>
<td>To ensure regular and timely release of payment on due dates for work done.</td>
<td>To provide goods and / or services timely as per agreed quality and specifications at minimum cost of GETCO.</td>
</tr>
<tr>
<td>To ensure that no improper demand is made by employees or by anyone on our behalf.</td>
<td>To abide by the general discipline to be maintained in our dealings.</td>
</tr>
<tr>
<td>To give maximum possible assistance to all the Vendors / Suppliers / Service provider and other to enable them to complete the contract in time.</td>
<td>To be true and honest in furnishing information including payment to agents / sub-agent.</td>
</tr>
<tr>
<td>To provide all information to suppliers/ contractors relating to contract / Job which facilitate him to complete the contract / Job successfully in time.</td>
<td>Not to divulge any information, business details available during the course of business relationship to others without the written consent of GETCO.</td>
</tr>
<tr>
<td>To ensure minimum hurdles to Vendors/ suppliers / contractors in complete of agreement / contract / work order.</td>
<td>Not to enter into carter / syndicate / understanding whether formal / non-formal so as to influence the price.</td>
</tr>
</tbody>
</table>

Seal & Signature
(GETCO Authorized Signatory)

Seal & Signature
(Party's Authorized Person)

Name : 
Designation : 

Name : 

6. Seal & Signature of Bidder