TENDER DOCUMENT

TENDER NO.: DLI/C&E/WI-665/325

FOR

Supply of Colour Coated Troughed Galvalume sheets, FRP sheets for Conveyor gallery / Building structure for “Augmentation of Raw Material Receipt and Handling Facilities for New OHP, Part-B (Package No.-061), for Bhilai Steel Plant at Chhattisgarh”

VOLUME – III

TENDER SPECIFICATIONS

ENGINEERING PROJECTS (INDIA) LIMITED
(A GOVT. OF INDIA ENTERPRISE)
Core-3, Scope Complex, 7, Institutional Area,
Lodhi Road, New Delhi-110003
TEL NO. 011-24361666 FAX NO. 011-24363426
Email: core@engineeringprojects.com
DATA SHEET FOR ROOF / WALL CLADDING SHEETS INCLUDING FLASHINGS

A) Relevant IS codes and specification requirement.

1. Specification provision:

   a) Bare metal thickness- minimum 0.5mm (metal thickness excluding thickness for Zinc aluminium Alloy coating & colour coating).
   b) Yield strength – minimum 550 MPA as per AS: 1397.
   c) Coating – Zinc aluminium alloy not less than 150 gms / sq.m.
   d) Painting in external face – min 20 microns (Nominal) dry film thickness (DFT) of poly-vinyl Di fluoride (PVF2) over 5 microns (Nominal) primer coat.
   e) Painting on internal face – 12 microns (Nominal) dry film thickness (DFT) of poly-vinyl Di fluoride (PVF2) over 5 microns (Nominal) primer coat shall be as per category 3 of As:2728.
   f) Galvalume as per AS: 1397 and painted with poly-vinyl Di fluoride (PVF2).

B) Make of Galvalume sheet: The contractor shall use the metal sheet as manufactured by SAIL, RINL, TISCO, ESSAR, JINDAL, ISPAT or any other reputed make subject to approval of BSP/MECON.

C) Colour :
   
   ii) Sky blue (RAL-5012) on top side colour
   iii) Mill gray on bottom side colour for roof & wall cladding sheets.
   iv) White (RAL-9002) on bottom side colour of Flashings (Ridges & Corner).

D) Profile of Galvalume sheet:

   The contractor shall submit the profile along with their offer indicating its make and the dimensions for overall width, crest width, crest height, crest pitch, rib width etc.
INSPECTION

(CHAPTER-05)
GENERAL SPECIFICATION
FOR
QUALITY SYSTEM, INSPECTION &
TEST OF PLANT / EQUIPMENT AT
MANUFACTURER’S PREMISES
(GS – 05)

MECON LIMITED
RANCHI – 834002
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**ENCLOSURES:**

i) Form No. 11.20.(DQM)F-09 Rev-0 - QAP for Structural & Mechanical Equipment

ii) Form No. 11.20.(DQM)F-10 Rev-0 - QAP for Electrical Equipment

iii) Form No. 11.20.(DQM)F-11 Rev-0 - QAP for Refractory Materials

iv) Form No. 11.20.(DQM)F-5/2 Rev-0 - Inspection Call Proforma

v) LIST OF MECON OFFICES and Contact Address Details
1.0 GENERAL

1.1 Inspection & testing of plant & equipment shall be carried out by Consultant/ Purchaser at the works of successful tenderer during manufacturing and/or on final product to ensure conformity of the same with the acceptable criteria of technical specifications, approved drawings, manufacturing drawings and applicable national / international standards.

2.0 QUALITY SYSTEM REQUIREMENTS

The successful tenderer must recognise the importance of quality and follow defined quality programme in all stages of manufacturing and quality control activities of the product. Contractor must define and implement the tasks and controls that will provide needed assurance, in case manufacturing of product is sub-contracted either partly or fully and/or for the procured components of the product. All bought-out equipment or component shall be procured from vendors which are duly approved by the project authority.

Consultant/ Purchaser reserve the right to verify the quality programme of tenderer & its vendors/sub- vendors to assure the effectiveness of the programme to meet the intended and specified quality of the product.

3.0 QUALITY ASSURANCE PLAN (QAP)

3.1 The successful tenderer shall furnish Quality Assurance Plan (QAP) for respective equipment after completion of detailed engineering and finalisation of billing schedule / equipment identification number for Consultant's approval at least one month prior to start of manufacturing.

3.2 QAP shall be prepared & furnished by Contractor in Form Nos. 11.20(DQM) F-09,10, 11 (specimen copy enclosed) / detailed manufacturing QAP for structural & mechanical equipment, electrical equipment and refractory materials respectively, QAPs must be submitted in four (4) sets duly signed and stamped by tenderer for MECON approval.

3.3 The successful tenderer shall indicate procurement source and furnish to Consultant, during the submission of QAP, copies of P.O., Sub-P.O., T.S., approved GA drawings/ data sheets & detailed manufacturing drawings, as backup reference materials for scrutiny & final approval by Consultant. The submission & subsequent approval of QAPs shall be ensured to be restricted to one round only.

3.4 Inspection and test requirements shall be decided with due consideration of factors like safety, duty cycle, operating conditions, equipment life, environmental conditions, place of installation and statutory regulations, as applicable, for a particular equipment. Any, additional type or special tests or routine tests if found necessary to establish the intended quality after detailed engineering then the same shall have to be incorporated in the QAP without any commercial implication.

3.5 Detailed QAP shall be prepared by the successful tenderer in consultation with their Sub-contractors / Manufacturers to avoid any complicacy later.
4.0 **CALIBRATION OF MEASURING EQUIPMENT**

4.1 All the measuring equipment used for inspection & testing shall be calibrated and appropriate accuracy class of measuring equipment shall be used. Calibration standards used for calibration of measuring equipment shall be traceable to national standards of National Physical Laboratory (NPL), New Delhi with unbroken chains of comparison.

4.2 Valid calibration certificate for all measuring equipment used during inspection and testing at manufacturer's works, with traceability to national standards of NPL/ NABL accredited laboratories shall be furnished prior to undertaking inspection by Consultant/ Purchaser.

Calibration certificate shall also indicate reference no. of calibration standards calibrated by NPL/NABL accredited laboratories and copies of such calibration certificates of calibration standards shall be included in the compiled dossiers of inspection/test results.

5.0 **TEST CERTIFICATES AND DOCUMENTS**

5.1 For each of the items being manufactured as per approved QAP, following test certificates and documents, as applicable for each of the equipment, in requisite copies including original, duly endorsed by the Manufacturer/successful tenderer with appropriate linkage to project, purchase order and acceptance criteria etc shall be submitted to Consultant/ Purchaser.


ii) WPS, PQR & WPQ documents as per applicable code.

iii) Details of stagewise inspection & rectification records for fabricated items, castings, forgings and machined articles.

iv) Control dimension chart with records of alignment, squareness etc.

v) Manufacturer's material and performance/relevant test certificates for all bought-out items.

vi) Details of heat-treatment and stress relieving charts as per specification.

vii) Non-Destructive Test reports as per respective code.

viii) Static/dynamic balancing certificate for rotating components/machines.

ix) Hardness test certificate.

x) Pressure/Leakage Test Certificates.

xi) Performance Test Certificates for all characteristics.

xii) Routine / type / calibration / acceptance / special test (Type Tests etc) certificates for electrical items.
xiii) Surface preparation and painting certificates.

xiv) Certificates from competent authority for the items coming under statutory regulations.

5.2 Where physical and chemical test certificates of material are not available, the successful tenderer/Sub-contractor shall arrange to have specimens and test samples of the materials, tested in his own laboratory at his cost and submit the copies of test results in requisite numbers to Consultant/Purchaser for review. Number of test samples against each heat/cast/lot or batch of materials, as applicable shall be as per relevant Indian or International Standards.

5.3 Where facilities for testing do not exist in the successful tenderer/Sub-contractor's laboratories or in case of any dispute, samples and test pieces shall be drawn by the successful tenderer/Sub-contractor in presence of Consultant/ Purchaser and sealed sample shall be sent to any Govt. approved /NABL accredited laboratory for necessary tests at former's own cost.

5.4 The Consultant/ Purchaser shall have the right to be present and witness all tests being carried out by the successful tenderer/Sub-contractor at their own laboratory or approved laboratories. Also, the Inspection Agency shall reserve the right to call for confirmatory test on samples, at his discretion.

6.0 INTERNAL INSPECTION BY SUCCESSFUL TENDERER/MANUFACTURER

6.1 Inspection and tests shall be carried out by Contractor/ Manufacturer in accordance with approved drawings, T.S., P.O., and approved QAP. They shall maintain records of each inspection and test carried out and signed documents shall be submitted to Purchaser/Consultant for verification.

6.2 The successful tenderer shall carry out their internal inspection & obtain clearance from statutory bodies e.g. IBR, CCE, TAC, Weights & Measures, safety, IE rules etc. prior to offering any equipment for Purchaser/Consultant's inspection in accordance with approved QAP.

6.3 The successful tenderer/ Manufacturers shall identify all the inspected equipment/component/raw materials & shall maintain the record of status of inspection viz. inspected & found acceptable, require rectification/rework, rejected etc.

6.4 The successful tenderer shall establish and maintain procedures to ensure that the product that does not conform to specified requirements, is prevented from inadvertent use or installation. The description of non-conformity that has been accepted subsequently by Consultant/ Purchaser by concession and/or of repairs, shall be recorded.

Repaired and reworked product shall be offered for re- inspection to Consultant/ Purchaser along with records of corrective action taken.

7.0 MANUFACTURING AND INSPECTION SCHEDULE

All contractors shall submit the schedule for manufacturing and inspection indicating equipment / components, sub-assembly/ assembly. Date of approval of drawings / data sheets. Address of manufacturer with contact person and scheduled date of inspection. Such reports shall be submitted to respective Consultant Inspecting Offices with a copy...
to Inspection Co-ordinating Office once in a month. These monthly reports shall state the planning for next three months. Submission of first reports must commence one month prior to commencement of manufacturing activities of the product.

8.0  **METHOD OF UNDERTAKING INSPECTION & TESTING BY CONSULTANT/PURCHASER**

8.1 Inspection call shall be given only on readiness of the equipment/assembly/sub-assembly & after approval of all relevant drawings and QAP. In case, equipment/assembly/sub-assembly offered for inspection are found not ready, all the cost of visit of Consultant's engineer shall have to be borne by the successful tenderer.

If the equipment/assembly/sub-assembly after inspection found not acceptable, require rework and involve Consultant's re-inspection, all the cost of such re-inspections shall also have to be borne by the successful tenderer.

8.2 Inspection call shall be floated to Consultant, in the enclosed Form No.11.20(DQM)F-05/2.REV-0 duly filled in, with ten days clear margin, enclosing all documents like test Certificates, Internal Inspection Reports, P.O., Sub-P.O., T.S., Approved QAP, approved GA drawings/data sheets and manufacturing drawings. Inspection calls without above documents shall be treated as invalid and shall be ignored. The hard copy of such documents must also accompany a CD (comprising computer readable files) containing the identical documents.

8.3 The successful tenderer shall offer substantial quantities for economical inspection consistent with the size of order.

8.4 On receipt of the Inspection call, pertaining to particular package/equipment/item, QA & Inspection group of Consultant, Ranchi (Overall co-ordinating office for Inspection activities) shall organize inspection visit or will issue Inspection assignment to other Consultant's office (based on nearness to the vendor's manufacturing works/relevant job expertise). For further inspection pertaining to the same package/equipment/item, successful tenderer may forward the subsequent inspection calls to the respective Consultant's offices (as identified per initial assignment), with a copy to QA & Inspection Section, Ranchi.

9.0  **OBLIGATIONS OF SUCCESSFUL TENDERER**

9.1 The successful tenderer shall provide all facilities and ensure full and free access of the Inspection Engineer of Purchaser/Consultant to their own or their Sub-Contractor's premises at any time, during contract period, to facilitate him to carry out inspection & testing of the product during or after manufacture of the same.

9.2 The successful tenderer shall delegate a Representative/Co-ordinator to deal with Consultant/Purchaser on all inspection matters. Representative of successful tenderer shall be present during all inspection at Sub-Contractor's works.

9.3 The successful tenderer shall comply with instructions of Consultant/Purchaser fully and with promptitude.

9.4 The successful tenderer/Sub-Contractor shall provide all instruments, tools, necessary testing & other inspection facilities to Consultant/Purchaser free of cost for carrying out inspection.

9.5 The cost of testing welds by ultrasonic, radiographic and dye penetration tests etc. in the fabrication workshop shall be borne by the successful tenderer. These tests need to be
witnessed by ASNT/ISNT Level-II qualified NDT personals

9.6 The successful tenderer shall ensure that the equipment/assembly/component of the plant and equipment required to be inspected, are not dismantled or dispatched before inspection.

9.7 The successful tenderer shall not offer equipment for inspection in painted condition unless otherwise agreed in writing by Consultant/Purchaser.

9.8 The successful tenderer shall ensure that the equipment and materials once rejected by the Consultant/Purchaser, are not re-used in the manufacture of the plant and equipment. Where parts rejected during inspection 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.

10.0 STAMPING AND ISSUE OF INSPECTION DOCUMENTS

10.1 Inspection Memo: For rejected items/items, which do not conform to Technical Specification in one or more quality characteristics requiring rectification/rework, Inspection Memo shall be issued indicating therein the details of observation & remarks. All the non-conformities with respect to specification of the product shall be indicated in the Inspection Memo for further quality control by successful tenderer.

10.2 Inspection Certificate: On satisfactory completion of final inspection & testing, all accepted plant & equipment shall be stamped suitably and Inspection Certificate shall be issued by the Consultant for the accepted items.

11.0 GENERAL CLAUSE

11.1 Inspection & tests carried out by Consultant/Purchaser shall not absolve the responsibility of the successful tenderer/Manufacturer to provide acceptable product as per the terms of contract nor shall it preclude subsequent rejection.

11.2 Purchaser/Consultant reserve the right to inspect any product at any stage of manufacturing beyond pre-identified stages & hold points of approved QAP.
### Instructions for Filling Up:

1. QAP shall be submitted for each item of equipment separately with breakdown of assembly/sub-assembly/part/component or for group of equipment having same specification.

2. Use numerical codes as indicated for extent of inspection & tests and submission of test certificates & documents. Additional codes & description for extent of inspection & tests may be added as applicable for the plant & equipment.

3. Separate identification number with quantity for equipment shall be indicated wherever equipment having same specification belonging to different facilities are grouped together.

4. Weight in tonnes (T) must be indicated under column 5 for each item. Estimated weights may be indicated wherever actual weights are not available.

### Abbreviations Used:

- CONTR: CONTRACTOR
- MFG: MANUFACTURER
- R.M: Raw Material
- Inprocess
- Test Certificates
- MECON
- Test
- Manufacturer's Test Certificate
- Manufacturer's Test Certificate
- Final Inspection
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- Final Inspection
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(O.A.P NO. TO BE ALLOTTED BY MECON)
## QUALITY ASSURANCE PLAN

### FOR

#### ELECTRICAL EQUIPMENT

**INSTRUCTIONS FOR FILLING UP:**

1. **QAP shall be submitted for each of the equipment separately with break up of assembly/sub-assembly/part/component or for group of equipment having same specification.**

2. **Use numerical codes as indicated for extent of inspection & tests and submission of test certificates & documents. Additional codes & description for extent of inspection & tests may be added as applicable for the plant and equipment.**

3. **Separate identification number with quantity for equipment shall be indicated wherever equipment having same specification belonging to different facilities are grouped together.**

4. **Weight in tonnes (T) must be indicated under column 5 for each item. Estimated weights may be indicated wherever actual weights are not available.**

### CODES FOR EXTENT OF INSPECTION, TESTS, TEST CERTIFICATES & DOCUMENTS:

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| 11.  | High voltage test/Dielectric test. |
| 12.  | Routine test as per relevant IS/other standard. |
| 13.  | Type tests as per relevant IS/other standard. |
| 15.  | Partial Discharge Test. |
| 17.  | Enclosure protection Test. |
| 20.  | Test Certificates for bought out components. |
| 21.  | Tank pressure Test. |
| 22.  | Paint shade verification. |
| 23.  | Short time rating. |
| 25.  | Overspeed Test. |
| 26.  | Flame proof Test. |
| 27.  | Clearance and creepage distance. |
| 28.  | Acceptance Tests as per relevant IS |

### DOCUMENTS:

- D1. Approved GA drawings
- D2. Approved single line / schematic diagram
- D3. Catalogues / Approved data sheet
- D5. Unpriced P.O. copy.
- D6. Calibration Certificate of all measuring instrument and gauges

### SUMMARY OF INSPECTION 

**EQUIPMENT DETAILS**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description (with equipment heading, place of use and brief specification)</th>
<th>Manufacturer's Name and Address</th>
<th>Expected Schedule of Final Inspn</th>
</tr>
</thead>
<tbody>
<tr>
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**TERMS OF REFERENCE**

- **CONTR**: CONTRACTOR
- **MFG**: MANUFACTURER

**INSPECTION AND TESTS**

<table>
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<th>Sl. No.</th>
<th>Description (with equipment heading, place of use and brief specification)</th>
<th>Manufacturer's Name and Address</th>
<th>Expected Schedule of Final Inspn</th>
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<tbody>
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**MECON**

- **MFR**: MECON
- **CONTR**: CONTRACTOR

**REMARKS/DETAILED SAMPLING PLAN**

**FOR**

**CONTRACTOR / SUB-CONTRACTOR**

**MECON (Stamp & Signature)**

(Stamp & Signature)
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description (with equipment heading, place of use and brief specification)</th>
<th>Identification No. (M)</th>
<th>Quantity</th>
<th>Manufacturer's Name and Address</th>
<th>Expected Schedule of Final Stage Inspection</th>
<th>Final Inspection / Test by</th>
<th>Test Certificates &amp; Documents to be submitted to MECON</th>
<th>Acceptance Criteria Standards/BS/ASME/Norms and Documents</th>
<th>REMARKS/</th>
<th>Raw Material and In-process Test Certificates &amp; Acceptance Criteria</th>
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1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

For CONTRACTOR / SUB-CONTRACTOR

for MECON (Stamp & Signature)

(Stamp & Signature)
INSTRUCTIONS FOR FILLING UP:

1. QAP shall be submitted for each of the equipment separately with break up of assembly/sub-assembly/part/component or for group of equipment having same specification.

2. Use numerical codes as indicated for extent of inspection & tests and submission of test certificates & documents. Additional codes & description for extent of inspection & tests may be added as applicable for the plant and equipment.

3. Separate identification number with quantity for equipment shall be indicated wherever equipment having same specification belonging to different facilities are grouped together.

4. Weight in tonnes (T) must be indicated under column 5 for each item. Estimated weights may be indicated wherever actual weights are not available.

ABBREVIATIONS USED:

- CONTR : CONTRACTOR
- MFR : MANUFACTURER
- MECON : MECON

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description (with equipment heading, place of use and brief specification)</th>
<th>Identification No.</th>
<th>Quantity</th>
<th>Manufacturer's Name and Address</th>
<th>Expected Schedule of Final Inspection</th>
<th>Raw Material and Inprocess stage Inspection</th>
<th>Test Certificates &amp; documents to be submitted to MECON</th>
<th>Acceptance Criteria</th>
<th>REMARKS/SAMPLING PLAN</th>
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</table>

Instruments for Extent of Inspection, Test, Test Certificates & Documents:

1. Visual
2. Dimensions and geometry
3. Chemical composition
4. Apparent porosity
5. True specific gravity
6. Bulk density/true density
7. Cold crushing strength
8. Pyrometric cone equivalent
9. Refractoriness under load
10. Spalling resistance
11. Permanent linear change
12. Modulus of Rupture
13. Reversible thermal expansion
14. Resistance to dis-integration effect
15. Water absorption
16. Acid resistance
17. Thermal conductivity
18. Drying & firing shrinkage
19. Sieve analysis
20. Warpage
21. Drip slag test
22. Permeability test
23. Hydration resistance test
24. Lap joint strength
25. Abrasion resistance
26. Cold bonding strength
27. Oxidation resistance
28. Workability
29. Surface area
30. Corrosion resistance
31. Consistency
32. Internal Inspection Report
33. Safe working temp.
34. Lot sampling
35. Part assembly
36. Control assembly.
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description (with equipment heading, place of use and brief specification)</th>
<th>Identification No. / M. No.</th>
<th>Quantity</th>
<th>Manufacturer's Name and Address</th>
<th>Expected Schedule of Final Inspection</th>
<th>Raw Material and Inprocess Test Certificates &amp; Acceptance Criteria</th>
<th>Final Inspection / Test by MECON</th>
<th>Test Certificates &amp; documents to be submitted to MECON</th>
<th>Acceptance Criteria Standards/IS/BS/ ASME/Norms and Documents</th>
<th>REMARKS/ SAMPLING PLAN</th>
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For CONTRACTOR / SUB-CONTRACTOR

For MECON (Stamp & Signature)
## INSPECTION CALL PROFORMA

<table>
<thead>
<tr>
<th>Inspection Call No.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor</td>
<td>Contractor’s Order No. &amp; Date</td>
</tr>
<tr>
<td>Sub-Contractor with address, Fax &amp; Ph. No.</td>
<td>Place of Inspection with address, Fax &amp; Ph. No.</td>
</tr>
<tr>
<td>Proposed Date of Inspection</td>
<td>Name &amp; Designation of Contact Person with Ph. No.</td>
</tr>
<tr>
<td>Manufacturer’s Off-day</td>
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### List of items offered for inspection:

<table>
<thead>
<tr>
<th>Item Identification No.</th>
<th>Item Description</th>
<th>Drawing No. with Revision</th>
<th>Drawing Approval Status A/AAN/INF</th>
<th>QAP No. &amp; Status</th>
<th>Quantity (No./M) with tonnage</th>
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<tbody>
<tr>
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<td>Total Ordered</td>
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<tr>
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<td>Offered</td>
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</table>

A = Approved, AAN = Approved as Noted, INF = Information Category

List of documents & Test Certificates enclosed in four (4) sets.

<table>
<thead>
<tr>
<th>Description</th>
<th>Ref No. &amp; Date</th>
<th>Description</th>
<th>Ref No. &amp; Date</th>
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</thead>
</table>

for Contractor/Sub-Contractor
<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>DETAILED ADDRESS</th>
<th>AREA OF OPERATION</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>BANGALORE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D.G.M.</td>
<td>Karnataka, A.P. &amp; Kerala</td>
</tr>
<tr>
<td></td>
<td>Inspection Section</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MECON Ltd.,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>89, South End Road,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basavanagudi,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bangalore-560 004 (Karnataka)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gram : MECONIND</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fax : 080-6576352</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phone : 080-6571661-68/6576476</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E-mail : <a href="mailto:bangalore@mecon.co.in">bangalore@mecon.co.in</a></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td><strong>BHILAI</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dy.Generaol Manager</td>
<td>Bhilai, Nagpur, Raipur, Bilaspur, Bhopal, Satna &amp; Katni</td>
</tr>
<tr>
<td></td>
<td>MECON Ltd.,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ispat Bhawan, Ist floor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bhilai-490 001 (M.P.)</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td></td>
<td>Fax : 0788-224452</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phone : 0788-220107/224101/224454</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E-mail : <a href="mailto:bhilai@mecon.co.in">bhilai@mecon.co.in</a></td>
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</table>
# LIST OF MAJOR INSPECTING OFFICES OF MECON

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>DETAILED ADDRESS</th>
<th>AREA OF OPERATION</th>
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<tbody>
<tr>
<td>4.</td>
<td><strong>CHENNAI</strong></td>
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<tr>
<td></td>
<td>DGM I/C</td>
<td>Chennai &amp; total Tamil Nadu</td>
</tr>
<tr>
<td></td>
<td>MECON Ltd.,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J-5, Plot No. 3552,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6th Avenue, Annanagar East,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chennai- 600 102</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td></td>
<td>Fax : 044-26261474</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phone : 044-26261911,26269743</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E-mail : <a href="mailto:chennai@mecon.co.in">chennai@mecon.co.in</a></td>
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<tr>
<td>5.</td>
<td><strong>KOLKATA (Controlled through Ranchi)</strong></td>
<td></td>
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<tr>
<td></td>
<td>DGM</td>
<td>Kolkata, Howrah, Bhubaneswar, Cuttack &amp; Baripada</td>
</tr>
<tr>
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<td>Inspection Section</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MECON Ltd.,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50, Chwringhee Road,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kolkata- 700 071 (W.B.)</td>
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<tr>
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<td>Gram : MECONCAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fax : 033-22824441</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phone : 033-22822381 to 83,22822284,22822657</td>
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<td></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:mecon-cal@datatone.in">mecon-cal@datatone.in</a></td>
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</tr>
<tr>
<td>6.</td>
<td><strong>Mumbai</strong></td>
<td>Maharashtra (except Nagpur), Gujarat &amp; Goa</td>
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<td>DGM (I/C)</td>
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<td>Inspection Section</td>
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<tr>
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<td>MECON Ltd.,</td>
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<tr>
<td></td>
<td>3rd Floor, Tower No. 7,</td>
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<tr>
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</tr>
<tr>
<td></td>
<td>Vashi Railway Station Complex,</td>
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</tr>
<tr>
<td></td>
<td>Vashi, Navi Mumbai-400 703</td>
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</tr>
<tr>
<td></td>
<td>Fax : 022-27812275</td>
<td></td>
</tr>
<tr>
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<td>E-mail : <a href="mailto:mecon@bom5.vsnl.net.in">mecon@bom5.vsnl.net.in</a></td>
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<tr>
<td>7.</td>
<td><strong>NEW DELHI</strong></td>
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<td>DGM</td>
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<td>Inspection Section, MECON Ltd., Scope Minar, 14th &amp; 15th Floor, North Tower, Laxmi Nagar, Delhi-110 092</td>
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<tr>
<td></td>
<td>Fax: 011-22401203,22041214, Phone: 011-22041201/22041315, 22041238</td>
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<td>E-mail: <a href="mailto:delhi@mecon.co.in">delhi@mecon.co.in</a></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td><strong>RANCHI</strong></td>
<td>Ranchi, Dhanbad, Jamshedpur, Allahabad, Naini and all over India, if need arises for whatever reason.</td>
</tr>
<tr>
<td></td>
<td>Mr. P. Dutta, DGM (I/C) QA &amp; Inspection Section MECON Ltd., Ranchi-834 002 (Jharkhand)</td>
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<tr>
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<tr>
<td></td>
<td>Fax: 0651-2480216/2480002/2262194, Phone: 0651-2481002/2481216 Extn: 7330 2482183 (P &amp; T) Direct</td>
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<tr>
<td></td>
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