

क्रमांक/अ.आयु.-3/गु.नि.एवं नवीन तक./1/2019-20 भोपाल,दिनांक .../04/2019

प्रतिलिपि :-

- 1 स्टॉफ आफीसर, प्रमुख सचिव, नगरीय प्रशासन एवं आवास, म.प्र. शासन भोपाल की ओर सूचनार्थ प्रेषित।
- 2 निजराचिव अध्यक्ष/आयुक्त,म.प्र.गृह निर्माण एवं अधोसंरचना विकास मंडल, मुख्यालय भोपाल।
- 3 आयुक्त,नगर पालिक निगम, भोपाल।
- 4 गार्ड फाइल।

संलग्न:- उपरोक्तानुसार।

हस्ता-
आयुक्त

म.प्र.गृह निर्माण एवं अधोसंरचना
विकास मंडल, भोपाल



**MP HOUSING AND INFRASTRUCTURE
DEVELOPMENT BOARD**
(QUALITY CONTROL AND NEW TECHNOLOGY CELL)

**CHECK LIST FOR QUALITY CONTROL
IN CONSTRUCTION WORKS**

ISSUED BY :
Addl. Housing Commissioner(3)
M.P. Housing & Infra. Dev. Board
H.O. Bhopal

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PART — 1

CHECK LIST FOR CONCRETE AND FORM WORK

1. Date of Casting

2. Location

3. Ref of Architectural /Structural Drawing No/Date

S.NO	ACTIVITY	
1	Whether materials used are tested and conformed to relevant Specifications?	Yes/No
a	Sand	Yes/No
b	Coarse aggregate	Yes/No
c	Water	Yes/No
d	Admixture, if any	Yes/No
e	Cement	Yes/No
2	Whether structural drawings correlated with architectural drawings?	Yes/No
3	Whether the centre line of column/beams checked with reference to grid lines as per architectural drawings?	Yes/No
4	Whether treatment of expansion joint, wherever required, is done?	Yes/No
5	Whether surface of shuttering plates are proper and leveled?	Yes/No

6	Whether cleaning, repairing of shuttering plates done and application of quality shuttering oil is done?	Yes/No
7	Whether shuttering is in true plumb and vertical and properly done and maintained during concreting?	Yes/No
8	Whether reinforcement detailing, their placement are as per structural drawings?	Yes/No
9	Whether proper gauge binding wire is used and with full cross binding and tightening of reinforcement bars with stirrups?	Yes/No
10	Whether required minimum cover to reinforcement is maintained?	Yes/No
11	Whether stainless steel cramps, angle irons for holding stones and any holding arrangement for electrical /mechanical/ fire fighting /other services have been seen and approved by E.E.(Elec.)?	Yes/No
12	Whether conduits for various electrical/ mechanical / fire fighting /other services have been seen and approved by E.E.(Elec.)?	Yes/No
13	Whether concrete of approved design mix within maximum permissible water-cement ratio is used?	Yes/No
14	Whether admixture of good brand quality approved by Engineer-in-charge charge is used?	Yes/No
15	Whether technical supervision at batching plant /mixer and at point of concreting done?	Yes/No
16	Whether concreting is placed within initial setting time of mixing?	Yes/No

17	Whether proper compaction with vibrator is done?	Yes/No
18	Whether the concreting has been done in a lift not exceeding 1.5 m?	Yes/No
19	Whether cubes as per requirement filled for testing?	Yes/No
	Post-concreting:	
20	Whether shuttering stripped off as per specifications, and laitance removed immediately thereafter?	Yes/No
21	Whether proper arrangement of curing and curing period maintained as per specifications?	Yes/No
22	Whether hacking of RCC surface by proper hacking tool is done for subsequent concreting?	Yes/No

Checked by
Sub Engr.

Verified by
A.E.

Accepted by
E.E.

PART — 2

CHECK LIST FOR BRICK WORK

1. Date of Work :

2. Location

3. Ref of Architectural /Structural Drawing No/Date

1	Whether materials used conform to relevant Specifications and whether mandatory tests done?	
	(a) Sand	Yes/No
	(b) Bricks	Yes/No
	(c) Water	Yes/No
2	Whether the centre line of brickwork checked with reference to grid lines as per architectural drawings?	Yes/No
3	Whether bricks soaked in water before use for sufficient period?	Yes/No
4	Whether queen closers are used at junction of walls?	Yes/No
5	Whether brick work is in true plumb and vertical and all layers truly horizontal?	Yes/No
6	Whether graduated wooden straight edge storey rod being used for keeping height of brick courses uniform?	Yes/No
7	Whether wall height being constructed in a day is being restricted to 1 m height?	Yes/No

8	Whether parts of wall left at different levels are raked back at an angle of 45 degrees or less with the horizontal? (Toothing is not to be permitted)	Yes/No
9	Whether top courses of all plinths, parapets, steps and top of walls below floor and roof slabs laid with brick on edge?	Yes/No
10	Whether thickness of joints in brickwork is kept 1 cm \pm 20%?	Yes/No
11	Whether mortar of approved mix within maximum permissible water cement ratio is used?	Yes/No
12	Whether all horizontal and vertical joints are being filled?	Yes/No
13	Whether proper arrangement of curing and curing period maintained as per specification?	Yes/No
14	Whether date of work done written on walls ?	Yes/No

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Sub Engr.

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PART- 3

CHECK LIST FOR STONE MASONRY

1. Date
2. Location /Floor
3. Ref of Architectural Drawing - No/Date

C.R. MASNORY FIRST SORT/SECOND SORT

1	Is the quality of stone suitable for building work?	
(a)	Is the stone used in masonry of good type with uniform texture?	Yes/No
(b)	Shall the stone stand weathering well? Note:- When Immersed in water for 24 hours it shall not absorb more than 5 p.c. of its dry weight.	Yes/No
(c)	Is the stone free from dirt, dust, oil, or any other injurious material?	Yes/No
(d)	Is the stone wet before use?	Yes/No
(e)	Are enough stones of different categories eg. Face stones, headers, quoins etc. are collected at site of work in advance for at least one week requirement?	Yes/No
(f)	Are the stone laid on their natural bed face?	Yes/No

2	FACE STONES	
(a)	Is length of face stone larger than heights?	Yes/No
(b)	Is depth of each face stone at least 1.5 times the height?	Yes/No
(c)	Is the height of each face stone not less than 6 inches?	Yes/No
(d)	Are the face stones dressed at beds and joints?	Yes/No
	NOTE: (Beds and tops shall be square to face and rough tooled to at least 8 cm i.e. about 3") from the face, The side vertical joints faces shall be square to the face and rough tooled at least 4 cm. (i.e. ½") from face.)	

3	HEADERS	Yes/No
(a)	Are the header provided at 1.5 M (ft) apart in every course?	Yes/No
(b)	Are the headers of the same height of course?	Yes/No
(c)	Is the length of header stone larger than heights?	Yes/No
(d)	Are the headers dressed as the face stones ? (S.No. 2)	Yes/No
(e)	Is the face area of the header about 0.5 sq. ft and avg. cross-sectional area not less than 0.30 sq. ft.	Yes/No
(f)	Do the headers tail into the full widths of the wall up to 2 ft thick?	Yes/No
(g)	For larger width of masonry do the headers overlap for at least 15 cm (6").	Yes/No

4	QUOINS	
(a)	Are the quoin stones of the same height as the height of course?	Yes/No
(b)	Is the length of quoin not less than twice their height or 18" Whichever is more on the longer face, nor less than their Height on the shorter face?	Yes/No
(c)	Are the quoin stones hammer dressed as detailed in S. No. 2 Above?	Yes/No
5	HEARTING AND BACKING STONES	
(a)	Are the hearting and backing stones as large as possible with 30 p.c. of stone not less than 1/3 c.ft. for walls up to 20"	Yes/No
(b)	Are the backing stone where it is not to be plastered or where it is not likely to be covered permanently, are of the same type as face stones?	Yes/No
(c)	Are the hearting stones laid on their broadest face? (This gives an opportunity to fill the space between stones)	Yes/No
6	Are the courses of the same height? If not, no course is thicker than any course below it?	Yes/No
7	Are the joints in stone masonry properly broken? (Joints must be broken by half the height of the course and generally not less than 8 cm.)	Yes/No
8	Are the stones laid full in mortar both in bed and vertical joints?	Yes/No
9	Is the thickness of joints as per specifications? (3/8" thick for 1 st sort and 1/2" thick for 2 nd sort)	Yes/No

10	Are the joints raked to a depth of 10 mm (3/8 inch) when mortar is green and joints are to be pointed?	Yes/No
11	When joints are not to be pointed, are the joints pressed and traveled smooth while masonry is being laid?	Yes/No
12	Has the mortar in the masonry set properly?	Yes/No
13	Is the masonry compact? (A portion of the masonry be dismantled, Every stone must be found with mortar adhering face to all its Embedded surfaces and there shall be no hollows)	Yes/No
14	Is the rate of construction as per specification? (This shall be 2 ft per day for C.R. masonry, in C.M. and 18" per day for masonry in lime mortar ,further no fresh course shall be laid over masonry previously laid within four hours of laying for cement mortar and eight hours for lime mortar)	Yes/No
15	Are the cross walls properly bounded into the main walls?	Yes/No

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Notes:-

(1) Rough tooled or one line dressing means it should be dressed on edges for 5 cm width to be sparrow picked or chisel dressed so that dressed face in no portion is more than ¼" from straight edge, placed on it.

(2) No masonry shall be paid as first sort unless its provision is allowed by Dy. Housing Commissioner in writing (Note 6 of C.S.R. chapter stone masonry) and it fulfills the specifications in full)

(3) The practice of the building two thin faces tied with occasional through stones and filling up middle with dry packing and putting mortar on top must be strictly guarded against putting chips in joints of stones before filling these with mortar shall not be permitted.

PART — 4
CHECK LIST FOR PLASTERING
(INTERNAL AND EXTERNAL)

1. Date of Casting

2. Location

3. Ref of Architectural /Structural Drawing
No/Date

1	Whether materials used conform to relevant specifications and whether mandatory tests done?	Yes/No
2	Whether surface cleaned of all loose mortar and efflorescence?	Yes/No
3	Whether all conducting and electrical piping done?	Yes/No
4	Whether all doors, windows etc. fixed?	Yes/No
5	Whether all defects of brickwork/CC/RCC rectified?	Yes/No
6	Whether preparation of surface done?	Yes/No
7	Whether 2.5 m long aluminum straight edge and plumb bob being used to check verticality and evenness of surface?	Yes/No
8	Whether 15 cm x 15 cm bunda at every 2 m horizontally and vertically being provided to serve as gauges?	Yes/No
9	Whether uniform groove provided at junctions of all plaster and ceiling plaster?	Yes/No
10	Whether mortar of approved mix within maximum permissible water cement ratio is used?	Yes/No

11	Whether proper arrangement of curing and curing period maintained as per specifications?	Yes/No
12	Whether date of work done written?	Yes/No

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PART — 5

CHECK LIST FOR FLOORING

1. Date of Casting

2. Location

3. Ref of Architectural /Structural Drawing
No/Date

1	TILES FLOORING	
1.1	Whether Proper line and level of floor tiles has been maintained and checked?	Yes/No
1.2	Whether Floor tiles of approved brand and make are used?	Yes/No
1.3	Whether Floor level is checked before laying the tiles?	Yes/No
1.4	Whether Chamfering in corner tiles has been done and then fixed?	Yes/No
1.5	Whether bedding mortar in specified proportion is used?	Yes/No
1.6	Whether tiles are soaked in water before laying for minimum 12 Hours?	Yes/No
1.7	Whether care has been taken while laying the tiles that cut tiles are laid by the side of wall etc. and are not at prominent space?	Yes/No

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2	KOTA STONE, MARBLE STONE, GRANITE STONE FLOORING	Yes/No
2.1	Whether stone is cut to the size specified by the E E in right angle?	Yes/No
2.2	Whether the edges of stone are chamfered while cutting the stone?	Yes/No
2.3	Whether bedding mortar in specified proportion is used?	Yes/No
2.4	Whether cement slurry is applied before laying the stone?	Yes/No
2.5	Whether colour pigment is used to fill joints to match the colour shade of stone used?	Yes/No
2.6	Whether grinding three times is completed before final polishing of the stone?	Yes/No
2.7	Whether polishing is done by using mention polish and proper finish is achieved?	Yes/No
2.8	Whether joints of flooring are as per specifications?	Yes/No
2.9	Whether proper nosing is provided while using stone for steps and polished matching to the colour shade of stone used?	Yes/No
2.10	Whether grinding of flooring is assured before final polishing?	Yes/No

2.11	Whether care has been taken while providing in skirting. The skirting should not project more than tile or stone thickness?	Yes/No
2.12	Whether top surface of skirting is finished properly i.e. at 45 degree angle with the plastered wall to avoid the deposition of dust at the top of skirting?	Yes/No

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PART - 6

CHECK LIST-WOOD WORK

1. Date

2. Location /Floor

3. Ref of Architectural No/Date

1	Is the wood work as per specified classification? (unless otherwise specified, teak wood or Sal wood is generally used for various building works)	Yes/No
2	Is the timber brought on site of work of suitable quality and free from various defects and rejected timber removed from work site ? (Quality-timber to be used in building works shall be from the HEART of a sound tree, Sapwood should be entirely removed. It shall be uniform in substance, in fiber, free from large, loose, dead or cluster knots, flaws , shakes, warp, cup, spring, twist, bends or defects or any kind. It should be free from spongy, brittle, flaky, brushy, conditions, sapwood and borer holes. The timber shall be free from decay, rot, harmful fungi and insect attacks	Yes/No
3	Is the Color of wood uniform ?	Yes/No
	SAWING-All scantlings, planks etc. shall be sawn in straight lines and planes and of uniform thickness and of full measurement from end to end and shall be sawn in the direction of the grain	
4	Are the precautions against decaying of timber taken? (Precaution against decaying-All parts of wood work resting on or set in masonry shall be well painted with two coats of hot boiled tar. The tar shall be so applied as not to appear on the exposed timber. Timber buried in ground shall be well coated with tar)	Yes/No

5	<p>Is the wood work neatly and truly finished to the exact dimensions required?</p> <p>(Workmanship-All wood work shall be neatly and truly finished to the exact dimensions required. Unless otherwise specified all joints shall be simple tenon and mortise joints with the ends of the tenon exposed to view, all joints shall fit in truly and fully without wedging and filling, in a workman like manner All framed joinery for external work shall be put together with white lead and joints pinned with hard wood or bamboo pins, for internal works where joints are not likely to be affected by moisture, the joints may be glued and similarly pinned.</p>	Yes/No
6(a)	<p>Are the hold fasteners other iron work to be embedded in masonry and connected with wood work, provided with two coats of hot coal tar before being fixed?</p>	Yes/No
(b)	<p>Are required numbers of hold fasts provided ?</p> <p>(Minimum Three numbers for doors and 2 numbers for windows each side)</p>	Yes/No
(c)	<p>Are these hold fasts firmly fixed with ½” die bolts with hexagonal head and nut and fasteners?</p>	Yes/No
(d)	<p>Are the bolts properly sunk in door and window frame with wooden plug at top?</p>	Yes/No

7	<p>Are the thickness of shutters and width of styles and rails etc as specified in the drawings?</p> <p>(For fully panelled or partly panelled doors, the breadth of the styles and rails should be as provided in the approved drawings. Panel thickness may be maximum up to 10 mm less than that of style and should be normally in single width and raised edges on both planes if panel width is permitted in two pieces by Engineer-in-charge, it should be in equal width and in writing)</p>	Yes/No
8	<p>Is particle board, used of approved quality and make in case of flush shutters or with veneered particle board panels?</p>	Yes/No
9	<p>Are the door stoppers of approved quality size and shape?</p>	Yes/No
10	<p>Are the superior iron fitting of the best quality and make approved by engineer -in- charge and as per provision in S.O.R.”</p>	Yes/No
11	<p>If other than iron fitting to be used is approved by Dy. Housing Commissioner obtained regarding type quality and make?</p> <p>(Samples of these should be got approved by Dy. Housing Commissioner)</p>	Yes/No

12	Are the screws and hinges of approved quality, size and make and being correctly used? (Holes of correct size shall be drilled before inserting screws driving in or starting the screws with harmer is prohibited)	Yes/No
13	Is the written permission of painting or applying priming coat to wood work taken from Assistant Engineer prior to its application?	Yes/No

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PART — 7

CHECK LIST FOR WATER SUPPLY LINES

1.Date

2. Location/Floor

3. Ref of Architectural Drawing - No/Date

1	Whether materials used conform to relevant Specifications and whether mandatory tests done?	Yes/No
2	Whether plumber employed is licensed plumber or not?	Yes/No
3	Whether plan for piping system has been prepared and got approved?	Yes/No
4	Whether all pipes and fittings are ISI marked?	Yes/No
5	Whether a sample system has been prepared and got approved?	Yes/No
6	Whether clamps provided at specified spacing?	Yes/No
7	Whether pipe lines checked at required pressure before covering?	Yes/No
8	Whether weight of GI/CI pipes checked and found as per specification?	Yes/No

9	Whether flushing cistern is ISI marked and tested?	Yes/No
10	Whether fittings like wash basin, sink pan, cistern, bib cock, stop cock, wheel valves, etc. are ISI marked?	Yes/No
11	Whether PVC water storage tank is ISI marked? If not, whether sample sent for testing?	Yes/No

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PART — 8

CHECK LIST FOR SEWER LINE AND SEWAGE TREATMENT PLANT

1. Date of Casting

2. Location

3. Ref of Architectural /Structural Drawing No/Date

1	Whether Bench mark Pillars constructed showing the invert levels for every manhole chamber of every line have been ensured as per drawing?	Yes/No
2	Whether materials used are as per specifications?	Yes/No
3	Whether the alignment of sewer is in accordance with the approved plan?	Yes/No
4	Whether the sewer has been laid true to the alignment and gradient with proper bedding in all roads as per drawing and specifications?	Yes/No
5	Whether the jointing material used as per specification and joint tested before backfilling?	Yes/No
6	Whether the manhole chambers constructed as per drawing and specifications and tested for water tightness?	Yes/No

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	SEWAGE TREATMENT PLANT	
1	Whether the units of sewage treatment plant constructed as per approved design drawing and specifications?	Yes/No
2	Whether the sewage pumps, control panels are as per specifications and installed properly?	Yes/No
3	Whether the efficiency of the plant checked?	Yes/No

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PART-9

FINISING AND PAINTING

Check List for Colour-Washing,White Washing and Distempering and Painting

Location:

Floor

1	Whether the colour scheme is approved by the Competent Authority?	Yes/No
2	Is the building complete in all respect? (Colour washing etc. in the finishing item of work, and should be taken up in the end, after flooring etc. is done)	Yes/No
3	Is the plaster properly set and are all scaffolding boles etc. plugged?	Yes/No
4	Is white wash prepared out of fresh burnt white stone lime or shell lime?	Yes/No
5	Are the gum, salt, blue, etc. added to mixture to obtain proper whiteness and self adhering surface?	Yes/No
6	Is every coat of white or color wash applied properly? (One coat means-one stroke of brush from top to downwards to upwards over the 1 st stroke similarly one stroke from right to left and other left to right before the previous stroke dries up.)	Yes/No

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PART – 10

CHECK LIST-ROAD WORK

Earth work for Roads

1. Have the longitudinal and cross sections of each road prepared before starting the work? **Yes/No**
 2. Whether poles demarcating all levels are erected and marked by the road side? **Yes/No**
 3. Is the ground prepared for laying the embankment by removing the shrubs and vegetation before starting the earth work? **Yes/No**
 4. Have the levels been taken before execution of earth work and same verified by Assistant Engineer with reference to permanent bench mark ? **Yes/No**
 5. Whether filling is done in layers as specified with OMC ? **Yes/No**
 6. Whether M.D.D. is achieved and the achieved MDD is within tolerable limits? **Yes/No**
 7. Whether crust design is prepared and approved by competent authority? **Yes/No**
 8. Whether aggregate used for G.S.B. is well graded as per design? **Yes/No**
 9. Whether all tests for raw material are carried out? **Yes/No**
- Whether WMM is laid in specified/designed thickness?
Yes/No

10. Whether proper compaction is achieved by rolling?
Yes/No
11. Whether D.L.C. as per design in specified thickness is laid?
Yes/No
12. Whether P.Q.C. is laid in specified thickness? **Yes/No**
13. Whether dowel bars of specified diameter are provided with sleeves?
Yes/No
14. Whether temperature reinforcement is per design is provided at proper depth ?
Yes/No
15. Whether curing is done by ponding for first seven days and then by providing gunny bags or by hassen cloth?
Yes/No
16. Whether test results after 7 days and 28 days of curing are satisfactory?
Yes/No

(b)Material collection at site.

Are the materials collected at site,as per specifications as per C.S.R. notes 9 to 13 of the chapter Roadwork?

Yes/No

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Note:- 1. Moorum-plasticity index not to exceed 9 and soaked C.B.R. not less than 20 percent.

2. Is the metal hard ,tough, clean and dense and free from decayed and weathered portions with freshly broken faces? **Yes/No**

3. Is the metal of required size and shape without any flacky or round edges ? **Yes/No**

4. have all the materials required for road work been stacked and boxed in accordance with C.B.R. Note 8(a) to (e) of chapter “**Road Work**” ? **Yes/No**

5. Is the quantity of materials full as per requirement an uniformly distributed through out the road alignment ? **Yes/No**

(c)Consolidation

1. Is the sub grade adequately compacted with required camber grade &thickness ? **Yes/No**

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PART - 11
CHECK LIST FOR ITEMS OF
INTERNAL ELECTRIFICATION WORK

1. Date of Inspection :
2. Location :
3. Ref of Drawing if any :

S. No.	ACTIVITY	Remark
a.	PVC Conduit Pipe	
1.	Is pipe is as per agreement make	Yes/No
2.	Is pipe is ISI Mark	Yes/No
3.	Is the thickness of pipe is as per agreement	Yes/No
4.	Is the size of pipe is as per agreement	Yes/No
5.	Is pipe is properly fixed/inserted in bend/junction box	Yes/No
b.	PVC Insulated Wire	
1.	Is wire is as per agreement make	Yes/No
2.	Is wire is ISI Mark	Yes/No
3.	Is the size of wire is as per agreement	Yes/No
4.	Is the length of wire is sufficient to connect the accessories in switch board	Yes/No

5.	Is wire is properly connected in switch socket	Yes/No
6.	Is value of insulation resistance is as per BIS	Yes/No
c.	Modular Switch Box	
1.	Is box is as per agreement make	Yes/No
2.	Is the earthing point is provided in box	Yes/No
3.	Is the box is properly clean	Yes/No
d.	Modular Switch Socket	
1.	Is switch socket is as per agreement make	Yes/No
2.	Is switch socket is ISI mark	Yes/No
3.	Is switch socket is properly fixed in switch box	Yes/No
4.	Is outer plate of switch socket is properly clean	Yes/No
e.	MCB and MCB Box	
1.	Is MCB is as per agreement make	Yes/No
2.	Is current rating of MCB is as per agreement	Yes/No
3.	Is breaking capacity of MCB is as per agreement	Yes/No

4.	Is MCB is ISI mark	Yes/No
5.	Is MCB Box is as per agreement make	Yes/No
6.	Is MCB Box is of single door	Yes/No
7.	Is MCB Box is of double door	Yes/No
8.	Is MCB Box is IP 20	Yes/No
9.	Is MCB Box is IP 43	Yes/No
f.	MCCB	
1.	Is MCCB is as per agreement make	Yes/No
2.	Is current rating of MCCB is as per agreement	Yes/No
3.	Is breaking capacity of MCCB is as per agreement	Yes/No
4.	Is MCCB is ISI mark	Yes/No
g.	Earthing	
1.	Is depth of earth pit is as per agreement	Yes/No
2.	Is size of earth electrode is as per agreement	Yes/No
3.	Is size of earth conductor is as per agreement	Yes/No

4.	Is earth value of earthing station is as per BIS	Yes/No
5.	Is earth chamber is prepared and finished properly	Yes/No

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PART - 12
CHECK LIST FOR ITEMS OF
EXTERNAL ELECTRIFICATION WORK

1. Date of Inspection :
2. Location :
3. Ref of Drawing if any :

S. No.	ACTIVITY	Remark
a.	Pole	
1.	Is weight of pole is found as per agreement	Yes/No
2.	Is depth of pit is as per agreement	Yes/No
3.	Is diameter of concreting is properly done	Yes/No
4.	Is painting of pole is properly done	Yes/No
5.	Is earthing of pole is properly done	Yes/No
b.	Conductor	
1.	Is dia. of conductor is as per agreement	Yes/No
2.	Is weight of conductor is as per agreement	Yes/No
3.	Is conductor is of ISI mark	Yes/No
c.	AB and DO Fuse Set	
1.	Is AB switch is as per agreement make	Yes/No

2.	Is AB switch is fixed properly	Yes/No
3.	Is base channel is as per agreement	Yes/No
4.	Is arching horn is as per agreement	Yes/No
5.	Is operating pipe is jointless	Yes/No
6.	Is DO switch is as per agreement make	Yes/No
7.	Is base channel is as per agreement	Yes/No
8.	Is DO fuse barrel is in proper condition	Yes/No
9.	Is rating of DO fuse wire is proper	Yes/No
d.	LA	
1.	Is LA is as per agreement make	Yes/No
2.	Is LA properly earthed	Yes/No
e.	Transformer	
1.	Is Transformer is as per agreement make	Yes/No
2.	Is Transformer is Star Rated	Yes/No
3.	Is Transformer is properly earthed	Yes/No
4.	Is Capacity of Transformer is as per agreement	Yes/No

f.	DG Set	
1.	Is DG Set is as per agreement make	Yes/No
2.	Is noise level of DG Set is as per agreement	Yes/No
3.	Is DG Set is properly earthed	Yes/No
4.	Is Capacity of DG set is as per agreement	Yes/No
g.	Earthing	
1.	Is depth of earth pit is as per agreement	Yes/No
2.	Is size of earth electrode is as per agreement	Yes/No
3.	Is size of earth conductor is as per agreement	Yes/No
4.	Is earth value of earthing station is as per BIS	Yes/No
5.	Is earth chamber is prepared and finished properly	Yes/No
h.	Distribution Box and Switch Gear	
1.	Is distribution box is as per agreement make	Yes/No
2.	Is MCCB is as per agreement make	Yes/No
3.	Is HRC Fuse is as per agreement make	Yes/No
4.	Is breaking capacity of MCCB is as per agreement	Yes/No
5.	Is current rating of MCCB is as per agreement	Yes/No

6.	Is current rating of HRC Fuse is as per agreement	Yes/No
7.	Is gauge of sheet is as per agreement	Yes/No
8.	Is painting of D/Box is properly done	Yes/No
i.	PVC / XLPE Cable	
1.	Is Cable is as per agreement make	Yes/No
2.	Is rating of the cable is as per agreement	Yes/No
3.	Is Cable is ISI mark	Yes/No
4.	Is size and voltage grade is imposed at every meter of cable length	Yes/No
5.	Is cable is properly laid/hang	Yes/No
6.	Is cable connection done with is proper size of lug and glands	Yes/No

Checked by
Sub Engr.

Verified by
A.E.

Accepted by
E.E.

PART - 13

CERTIFICATE

This is certified that the work proposed for payment has been carried out in accordance with the Technical Check List issued by MPH&IDB Head Office Bhopal.

Sub Engineer

Assistant Engineer