



सत्यमेव जयते

भारत सरकार

Govt. of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

जल विद्युत परियोजना मूल्यांकन-II प्रभाग

Hydro Project Appraisal-II Division

No. 101/Guideline-MoC/HPA-II/2018/373

Dated: 06.04.2018.

विषय: Guidelines for examination and concurrence of changes in design of structure/equipment of H.E. Projects subsequent to accord of concurrence by CEA - regarding.

Kindly find enclosed herewith copy of "Guidelines for examination and concurrence of changes in design of structure/equipment of H.E. Projects subsequent to accord of concurrence by CEA" for information and necessary action.

संलग्नक यथोपरि। :

श्रवण कुमार
6.4.18
(श्रवण कुमार)

निदेशक (एचपीए-II)

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दूरभाष सं० 011-26105978

सूची के अनुसार

To:

1. Chairman, CWC
2. Chief Engineer (HPA-I & II), CEA
3. Chief Engineer (HE&TD), CEA
4. Chief Engineer (PSP&A-I), CEA
5. Chief Engineer (PSP&A-II), CEA
6. Chief Engineer (HPM), CEA
7. Chief Engineer (TCD), CEA
8. Chief Engineer (PAO), CWC
9. Director, GSI, EPE Division, DGCO, GSI, A-II, Pushpa Bhawan, Madangir Road, New Delhi
10. Director, CSMRS, Olof Palme Marg, HauzKhas, New Delhi
11. Director (PAC), CEA
12. Director (HPA-I), CEA
13. Chairman & Managing Director, NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad-121003
14. Chairman & Managing Director, NTPC Ltd., NTPC Bhawan, Scope Complex., 7, Institutional Area, Lodhi Road, New Delhi – 110003
15. Chairman & Managing Director, SJVN Limited; Himfed Building, New Shimla, Shimla (HP) 171009
16. Chairman & Managing Director, THDC Ltd, Pragatipuram, Bypass Road, Rishikesh, Uttarakhand Pin -249201
17. Chairman & Managing Director, NEEPCO Ltd., 15, NBCC Tower, UG Floor, Bhikaji Cama Place, New Delhi – 110066
18. Managing Director, UJVNL, Ganga Bhawan, Yamuna Colony, Dehradun, Uttarakhand, Pin – 248001
19. Managing Director, Chenab Valley Power Projects (P) Ltd., 2nd Floor, JKPCC Building, Rail Head Complex, Panama Chowk, Jammu – 180006 (J&K),
20. Managing Director, JKPSDC, Shaw Inn, The Boulevard, Srinagar, (J&K) – 190001
21. Chairman & Managing Director, WBSEDCL, Vidyut Bhawan (5th Floor), Block – DJ, Sector-II, Bidhan Nagar, Kolkata (WB) - 700091
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23. Chairman, Kerala State Electricity Board Vidyuthi Bhavanam, Pattom, Thiruvananthapuram, Kerala
24. Member Secretary, Polavaram Project Authority, Krishna Godavary Bhavan, H.No.11-4-648, (1st - Floor), AC Guards, Hyderabad – 500 004

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25. Director, Kalai Power Pvt Ltd, D-390, 1st Floor, Sector-10, Noida-201301
26. Director, Siyota Hydro Power Pvt. Ltd., G-77, Sujan Singh Park, New Delhi-110003
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31. Chief Executive Officer, DCM Sriram Infrastructure Ltd, 6th Floor, Kanchanjunga Building, 18, Barakhamba Road, New Delhi – 110 001
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42. President, Lanco Teesta Hydro Power Ltd., Plot No. 404 – 405, Udyog Vihar, Phase-III, Gurgaon-122016
43. General Manager, Dirang Energy Pvt. Ltd. F-14, Sector-8, NOIDA-201 301
44. General Manager, Himagiri Hydro Energy Pvt. Ltd., Corporate Office, Plot No. 13/17, Ground Floor, Lakshmi Tower, Nagarjuna Hills, Panjagutta, Hyderabad-500082
45. Director (IT), CEA with request to upload on CEA website under HPA-II Division – other reports

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सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF POWER
CENTRAL ELECTRICITY AUTHORITY

GUIDELINES FOR EXAMINATION AND
CONCURRENCE OF CHANGES IN DESIGN OF
STRUCTURES / EQUIPMENT OF HYDROELECTRIC
PROJECTS SUBSEQUENT TO ACCORD OF
CONCURRENCE BY CEA

NEW DELHI

MARCH, 2018
(Version 1.0)

Guidelines for examination and concurrence of changes in design of structures / equipment of hydroelectric projects subsequent to accord of concurrence by CEA

1.0 Introduction:

As per Section 8 (1) of the Electricity Act, 2003, any generating company intending to set up a hydro generating station shall prepare a scheme and submit to the Authority for its concurrence.

After concurrence is accorded to the hydroelectric scheme by CEA, many-a times developers find the requirement of making some modifications / changes or deletion/addition of structures/equipment in the approved design of structures/equipment of the project due to various reasons like results of physical model studies, geological reasons, site conditions, unforeseen reasons etc. These changes might affect the safety and performance of structures/equipment, therefore in such a case, a proposal/Memorandum of Changes would need to be submitted to CEA for examination and concurrence of such changes/ modifications/ addition/ deletion prior to implementation of the same. A condition in this regard, is already being stipulated in the concurrence/appraisal letters.

2.0 Purpose:

To examine and accord concurrence in compliance to one of the conditions stipulated in concurrence letter for HE schemes issued by CEA, "if any change in design parameters is proposed during construction / or before construction, the same shall be got concurred from the Authority before implementation of such changes". The proposal of such changes shall be submitted in form of "Memorandum of Changes (MoC)" to Secretary,CEA.

3.0 Scope:

The proposal is required to be submitted by the concerned developer regardless of 'sector' i.e. Central, State and Private. Such proposal (MoC) shall be appraised by various appraising groups in CEA/CWC/GSI/CSMRS depending upon the extent of changes proposed in the same manner as done for DPR during DPR concurrence stage. After the different aspects in the proposal are appraised by the respective formations, PAC Directorate of CEA shall take up the proposal for approval of Authority.

4.0 Modifications/ Changes and their Monitoring:

4.1 Categorization of changes:

- (i) Changes in design affecting the performance of plant/equipment.

(ii) Changes in design affecting safety of structures.

4.2 Broad changes in designs

The changes in size/design/type of Desilting chamber, Dam/barrage, Spillways, Head race tunnel, Surge shaft, Power house, Tail race tunnel, Turbine, E&M equipment etc. or deletion/addition of any of structural component/equipment.

4.3 Monitoring of deviation in the project features/changes

HPM Division, CEA will monitor the features or deviation in the features subsequent to accord of concurrence/appraisal to the scheme by CEA, before start of construction & after start of construction and bring to the notice of Secretary, CEA, the deviation, if any proposed to be carried out or being carried out by the developer. Secretary, CEA/PAC Directorate, CEA shall take such a deviation to Authority for an appropriate action and take up the matter with the developer accordingly.

5.0 Submission of proposal of design changes by developer:

Generating Company / Project Developer shall submit 10 copies of MoC proposal incorporating information as per checklist given at Annex-I, along with six soft copies on compact disks to Secretary, CEA for its examination and concurrence by CEA. The structure of MOC shall be similar to that of DPR as given in the "Guidelines for formulation of Detailed Project Reports of Hydro Electric Schemes, their acceptance and examination for concurrence" and it will mainly focus on areas where changes are proposed. PAC Directorate of CEA shall forward the MoC to concerned formations depending upon the extent of changes proposed by the developer. Concerned formations in CEA/CWC/GSI/CSMRS shall check whether all the information/data essentially required for appraisal of MoC proposal is included in the proposal and intimate to PAC Dte. within three weeks' time.

6.0 Acceptance of Proposal of MoC

Generating Company / Project Developer shall give a detailed presentation on all aspects of MoC proposal, after 3 weeks of submission of MoC proposal. After the deliberations in the presentation meeting, decision would be taken in respect of concerned appraising groups as well as whether the details furnished in the MoC proposal are adequate for further examination of MoC proposal. In case it is found that the MoC proposal does not contain essential inputs or is found to be incomplete in certain respects, the same shall be returned to the Generating Company / Project Developer for resubmission after incorporating the requisite details. If prima facie, the MoC proposal is found to be in order, it shall be taken up for detailed examination.

7.0 Examination of changes in design by concerned appraising groups.

The proposal shall be examined by concerned appraising groups in CEA/CWC/GSI/CSMRS and the comments / queries raised by them shall be promptly replied by the Generating Company / Project Developer preferably within a period of 7 working days and not more than 15 working days, failing which the MoC proposal shall stand returned to the generating company. The appraising groups shall issue approval indicating the details of appraised features.

8.0 Concurrence of Authority to changes in designs.

After obtaining clearances from all the concerned appraising groups, the agenda note for concurrence of the MoC proposal shall be prepared and submitted by PAC Dte. to Authority for its concurrence.

9.0 Issue of Concurrence of Authority to changes in designs.

After approval of MoC Proposal by the Authority, PAC Directorate of CEA shall advise the Generating Company / Project Developer to submit an addendum to the approved DPR incorporating all the modifications as concurred by the Authority in the hard and soft copies on compact disk in 6 (six) nos. for record of the Authority. Thereafter, a letter of concurrence of changes in designs of structures/equipment shall be issued by PAC Directorate of CEA.

10.0 Timelines and flowchart for examination and concurrence.

10.1 The timeline for appraising of MoC proposal by concerned appraising groups is as under:

Sl.No.	Aspect/ Activity	Organization	Time Period (days)
1	GSI/CSMRS aspects	GSI/CSMRS	15
2	Dam / Barrage	CWC	15
3	Hydel Civil Design	CWC	15
4	Gates Design	CWC	10
5	E&M Design	CEA	15
6	Design of switchyard and Power Evacuation works	CEA	15
7	Preparation of Appraisal Note and its approval	CEA	10
	Total		50

10.2 The flowchart of MoC is given at Exhibit – I

Checklist

1. Comparative statement of salient features viz. approved v/s. proposed changes.
2. Detailed justification of respective proposed changes.
3. Details/results of model studies, tests etc.
4. Current status of compliances of conditions mentioned in the concurrence letter.
5. Copy of statutory clearances obtained till date.
6. Commissioning schedule.

Procedure for examination of MoC proposal



