

पूर्वतटरेलवे  
East Coast Railway

प्रमुखमुख्यअभियन्ताकाकार्यालय  
Office of the Principal Engineer  
रेलसदन, चन्द्रशेखरपुर,  
Rail Sadan, C.S.Pur  
भुवनेश्वर-751017/Bhubaneswar-17

No:W.1/162/Drg/Policy/64/5-

Date: 31.01.2024

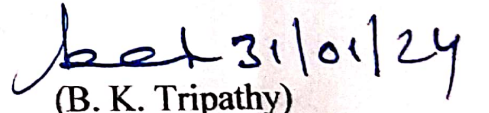
To  
The CAO/Con/BBS,  
CPM/RVNL/I & II/BBS,  
CPM/RVNL/I & II/WAT  
CPM/RVNL/Raipur,  
Sr.DEN/Co/KUR, WAT & SBP

Sub: Checklist for ESP approval  
Ref: (i) This office Lr.No.W.1/162/Drg.Policy/2666 dtd 19.05.2022  
(ii) Indian Railway Construction Manual, Dec'2023

Vide this office letter under ref.(i), checklist for processing of Yard plan & L-section has been circulated. In continuation to above, checklist for ESP approval as per table No.4.06, 4.06A & 4.06B of Indian Railway Construction Manual, Dec'2023 are also to be followed before submitting the ESP to HQ for approval.

This is for your information & necessary action at your end please.

Encl: As above

  
(B. K. Tripathy)  
Dy. Chief Engineer/Planning

Copy to:

- i) Secy to PCE for kind information of PCE please.
- ii) CPDE, CTE, CBE, CGE, CE/SD, CE/TM & CE/RSW & BR for kind information please

## CHECK LIST FOR PREPARATION OF YARD PLANS

S. No.	Description	
1	Has Name of Work mentioned on the ESP?	Yes/No/NA
2	Has the ESP been prepared in e DAS	Yes/No/NA
3	Type of work: Works Programme/Deposit Work/ Private	Yes/No/NA
4	In case of work sanctioned as per Works Programme of Railway:	
	a Plan Head	
	b Project ID	
	c Sanctioning Authority	
	d Year of Sanction	
	e Cost of Sanctioned work	
	f Executing agency	
4	Explanatory note on scope of work	
	i Scope as proposed	
	ii Scope as per sanctioned including deletion remarks, if any	
	iii Scope as represented in ESP	
	iv Remarks to explain deviation from the scope of sanctioned work	
5	In case of a unsanctioned work, has the administrative approval of the competent authority been obtained? If Yes, give reference and endorse a copy of justification along with the abstract estimated cost and indicate how the funds required are proposed to be arranged.	Yes/No/NA
6	In case of Deposit work/ Private siding:	
	a Name of approved consultant and validity of approval of the consultant.	
	b Date of in-principle approval	
	c Date of submission of 1% survey charges with proof	
	d Date of DPR approval by CTPM	
	e Date of submission of balance 1% survey charges with proof	
	f Allocation head in which survey charges are available (Along with certificate from finance department indicating amount and allocation head)	
	g Whether conditions at the time of in principle approval, DPR approval, issue of RTC etc have been complied with.	
	h Explanatory note on scope of work:	
	(i) As approved in DPR	
	(ii) Remarks to explain deviation from scope of approved work	
	i Whether the stipulations of the policy frame work under which the siding/facility has to be constructed has been examined and are complied with.	
	j Name of Executing agency	
7	Has the existing layout and feasibility of new proposal been checked at site and a certificate is recorded on the plan.	Yes/No/NA
8	Have all the lines been numbered and designated for identification and reference with direction of traffic (UP and DN line) as per	Yes/No/NA

	Engg. Code para 468?	
9	Has the plan been prepared in scale of 1 in 1000 as per Engg. Code para 468?	Yes/No/NA
10	Has spelling of stations names with their KM and class been shown as per Working Timetable/System map and IRWM para 906(a)iii?	Yes/No/NA
11	Has the distance between East Coast Railway boundary to centre line of main track at an every offset with chainage as per IRWM para 906(a) v been shown?	Yes/No/NA
12	Does the plan bear the names of officers concerned along with their signatures with dates, month and year as per IRWM Para 904 (a) ?	Yes/No/NA
13	Has the reference number of previously HQ approved plan on which the existing layout is based, been mentioned on the plan?	Yes/No/NA
14	Has the direction of flow of stream, pipe lines, sullage or sewer drains been indicated by arrow.	Yes/No/NA
15	Has the gradient posts with chainages upto 2.5 km in rear of outermost point on either side as per signal Engg. Manual part-1 para 8.6.2 (v) been shown?	Yes/No/NA
16	Have the type of platforms (i.e passenger or goods) with length and width and their heights above rail level as per IRWM para 906(a)xiv been shown ?	Yes/No/NA
17	Platform, Structures like station buildings, ROBs etc should be hatched in different patterns for easy identification.	Yes/No/NA
18	Have the chainage of all points and crossings, FM's Traps and Dead Ends as per IRWM para 906(a)xiv been shown in the plan?	Yes/No/NA
19	Have the complete details of curves such as curve number, deflection angle, degree of curve, radius of curve, tangent length, curve length, super elevation, transition length and speed in KMPH as per IRWM Para 906(a)vii been written on the plan?	Yes/No/NA
20	Have the LC gate number, class and its Kilometerage/ Chainages , interlocked or non interlocked have been shown?	Yes/No/NA
21	Have the names of nearest junctions or terminal stations on either sides as per IRWM para 906 (a) ii been shown in the plan?	Yes/No/NA
22	Have the names of adjoining stations along with their class and KM on either sides of the station been shown?	Yes/No/NA
23	Has the kilometerage of the centre line of station building been indicated in decimals as per working timetable and system map?	Yes/No/NA
24	Has the temples, mosques and graves, roads and footpaths with name of towns or villages they lead to been shown as per IRWM para no. 906(a)x?	Yes/No/NA
25	Has the position and block numbers of buildings been shown as per IRWM para No. 906 (a) xi?	Yes/No/NA
26	Has the road crossing with their class and location, road over bridges and under bridges as per IRWM para No. 906(a)xv been shown?	Yes/No/NA
27	Has the infringements of standard dimensions, in tabular form, if any been shown as per IRWM para No. 906(a)xvi?	Yes/No/NA
28	Has the plan been got signed by the party in case of deposit work?	Yes/No/NA

29	Have the notes regarding existing, proposed, work to be dismantled and other relevant been written on the plan as follows?:-Existing work in black, proposed work in red, work to be dismantled in thin dotted black and future work in dotted red.	Yes/No/NA
30	Have the works previously got approved by the Headquarters office but not executed till the time been incorporated on the tracing plans in different colours?	Yes/No/NA
31	Have the CSR of all the lines including siding been written on the plan? (where to where) As per IRWM para 906 (a) xiv	Yes/No/NA
32	Has the complete description of the bridges within station limit along with their chainage as per IRWM para 906 (c) been written on the plan?	Yes/No/NA
33	Provision of Track machine siding in projects for new lines, doubling, gauge conversion and yard remodeling should not be less than <b>300m</b> as per RB letter no. 2007/track-III/TK/24 vol II dated 14.3.2012.	Yes/No/NA
34	Has provisions of Siding for Track machine as per IRTMM para 8.4.4 ( <b>30 km apart</b> ) in projects of new lines, doubling, gauge conversion and yard remodeling is done?	Yes/No/NA
35	Has provision of Passenger Amenities at stations as per RB letter no. 2018/LM(PA)/03/06 dated 09.04.2018 is followed?	Yes/No/NA
36	If the section is under sanctioned electrified work, has the ESP been routed through concerned Executing Agency of Electrification.	Yes/No/NA
37	Further to point no 37 above, has the signature of Sr. DEE/TRD concerned been obtained on the plan?	Yes/No/NA
38	Whether type of Points & Crossings i.e. 1 in 8.5, 12, 16 and rail section with type of switches( straight/curved) are mentioned ?	Yes/No/NA
39	Whether gradients are compensated in curve portion and ruling gradient is maintained ?	Yes/No/NA
40	Whether track centre distance is kept as per SOD & latest guidelines	Yes/No/NA
41(a)	Is 1 in 8.5 turnout proposed on passenger line.	Yes/No
(b)	If yes (then reason for the same to be given) Approval of PCE taken or not.	Yes/No
42(a)	Is there any turnout of 1 in 8.5 with curved switch on running lines with passenger traffic from outside of a curve upto 5°.	Yes/No
(b)	If yes, then the detail of exceptional circumstances mentioned that why it is not possible to provide 1 in 12 turnout. Approval of PCE taken or not.	Yes/No
43	Is 1 in 12 turnout taking off from curves.	Yes/No
44(a)	Is there turnout with 1 in 12 or flatter crossing taking off from curve whose lead curve radius as well as radius of main line is less than 350m.	Yes / No
(b)	If yes, whether PCE approval obtained for laying of 1 in 12 or flatter turnout with curved switches inside of curve main line whose resultant lead curve radius not less than 290m.	Yes / No
45	Is there any points & crossing within 30 m of grade change	Yes/No/NA
46	Is reason recorded whenever proposing gradients steeper than 1 in 1200 and upto 1 in 400 in yards.	Yes/No/NA

47	If revision of ESP, then reason for deviation with proper justification as per annexure –A* are attached.	Yes / No
48	Whether regrading (either lowering or lifting) has been proposed, if yes, then action plan for regrading mentioned in ESP.	Yes / No
49	For new yards in new line projects, if yard gradient steeper than 1 in 1200 proposed. If yes, approval of GM obtained. (Ref: IRSOD, Chapter –II, Sl. no.-2,Note no. - b)	Yes/No/NA
50	Is there any siding line joining a passenger line steeper than 1 in 100. If yes, approval of Railway Board taken. (Ref: IRSOD, Chapter –II, Sl. no.-2,Note no. - c)	Yes / No
51	For existing yard (Ref: IRSOD, Chapter –II, Sl. no.-2,Note no. - d)	
(i)	CRS condonation taken for gradient steeper than 1 in 400 (0.25%) and up to 1 in 100(1.0%).	Yes/No/NA
(ii)	Railway Board condonation taken through CCRS for gradient steeper than 1 in 100(1.0%).	Yes/No/NA
52	For new yard. (Ref: IRSOD, Chapter –II, Sl. no.-2,Note no. - d)	
(i)	CRS condonation taken for gradient steeper than 1 in 400 (0.25%) and up to 1 in 260(0.38%).	Yes/No/NA
(ii)	Railway Board condonation taken through CCRS for gradient steeper than 1 in 260 (0.38%).	Yes/No/NA
53	Is there any turnout taking off from transition portion of main line curve. If yes, approval of CTE taken.(Ref: IRPWM para no. 410)	Yes/No/NA
54	Is there any change of cant between points 18m outside the toe of switch and the nose of the crossing.(Ref: IRSOD, Chapter –II, Sl. no.-21,Note)	Yes / No
55	Condonation details mentioned in ESP.	Yes/No/NA
56(a)	Is there any bridge/level crossing exists within 30m. distance ahead of Dead end.	Yes / No
(b)	If yes, Is the bridge extension proposed to have 30m. clear safe distance ahead of Dead end.	Yes / No

**\*Annexure-A**

Data as per earlier approved plan	Data as per proposed plan	Reason for deviation/Change