

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	
g	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 an 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 (IPA)	
	c Date of submission of 1% survey charges with proof	
	d Date of submission of balance 1% survey charges with proof	
	e Allocation head in which survey charges are available (Along with certificate from finance department indicating amount and allocation head)	
	f Whether conditions at the time of in principle approval have been complied with.	
	g Explanatory note on scope of work:	
	Remarks if deviation from scope for In-Principle Approval.	
	h Whether the stipulations of the policy frame work under which the siding/facility has to be constructed has been examined and are complied with.	
	i Name of Executing agency (If finalised).	
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 Engg. Code Para 468?	Yes/No/NA
9	Has the plan been prepared in scale of 1 in 1000 as per Engg. Code	Yes/No/NA

	Para 468?	
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	Have the gradient posts with chainages up to 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 changes of gradient falling within 30 meter of points and crossing been revised suitably as per SOD chapter ii (2-d)?	Yes/No/NA
17	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
18	Platform, Structures like station buildings, ROBs etc should be hatched in different patterns for easy identification.	Yes/No/NA
19	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
20	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
21	Have the LC gate number, class and its Kilometerage/ Chainages , interlocked or non interlocked have been shown?	Yes/No/NA
22	Have the names of nearest junctions or terminal stations on either side as per IRWM Para 906 (a) ii been shown in the plan?	Yes/No/NA
23	Have the names of adjoining stations along with their class and KM on either sides of the station been shown?	Yes/No/NA
24	Has the kilometerage of the centre line of station building been indicated in decimals as per working timetable and system map?	Yes/No/NA
25	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
26	Has the position and block numbers of buildings been shown as per IRWM Para No. 906 (a) xi?	Yes/No/NA
27	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
28	Has the infringements of standard dimensions, in tabular form, if any been shown as per IRWM Para No. 906(a)xvi?	Yes/No/NA
29	Has the plan been got signed by the party in case of deposit work?	Yes/No/NA
30	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	Yes/No/NA

	dotted black and future work in dotted red.	
31	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
32	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
33	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
34	Provision of Track machine siding along with stipulated facilities in projects for new lines, doubling, gauge conversion and yard remodeling should not be less than 300m as per Annexure 8.11 & Para 809 (5) of IRTMM 2019.	Yes/No/NA
35	Has provisions of Siding for Track machine as per IRTMM Para 809(5) (10-30 km apart) in projects of new lines, doubling, gauge conversion and yard remodeling is done?	Yes/No/NA
36	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
37	If the section is under sanctioned electrified work, has the ESP been routed through concerned Executing Agency of Electrification?	Yes/No/NA
38	Further to point no. 41 above, has the signature of Sr. DEE/TRD concerned been obtained on the plan?	Yes/No/NA
39	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
40	Whether gradients are compensated in curve portion and ruling gradient is maintained?	Yes/No/NA
41	Whether Gradient posts are kept at minimum 30m from SRJ or HOC of points and crossings within the yard portion and at 50m from top point on either end of the yard?	Yes/No/NA
42	Whether track centre distance is kept as per latest guidelines	Yes/No/NA

Check List for approval of L-section of Doubling/New line project

SI No	Item	Reference
1	TITLES AND NUMBERING OF DRAWINGS	
a)	Whether 170mmX65mm with basic information, like name of railway, name of division / Construction organization/ RVNL, name of work, drawing no, reference to sanctioned particulars (pink book items), dated initials of the concerned officials , alteration if any, scale of drawing are shown ? Ref: IRWM 904 (a)	Yes / No
2	Whether all the signature on tracing are indelible and date? Ref: IRWM 904 (e)	Yes / No
3	Whether the true North point is shown? Ref: IRWM 906 (a) (1)	Yes / No
4	Whether spelling of station names with Km and chainage are shown ? Ref: As per working time table	Yes / No
5	Whether direction of traffic Up/Dn line is shown? Ref: As per working time table	Yes / No
6	Whether scale of the plan- Horizontal = 1 : 5000, Vertical = 1 : 500 is shown ? Ref: Para 452 of Engg code	Yes / No
7	Whether bench marks are shown? Ref: Para 453 of Engg code	Yes / No
8 (i)	Whether the section is showing the formation level by a red line, the gradients are figured, and the height of formation above MSL entered at each change of gradient ?.	Yes / No
(II)	Whether the position of bridges, with size and spans, level crossings with their classification and position of each station with it's name and distance from the fixed point are shown ?	Yes / No
(III)	Whether the kilometerage from the fixed point, and figured at every kilometer are shown ? Ref: Para 451 of Engg. Code	Yes / No
9	Whether the datum used as per MSL? Ref: Para 446 of Engg. Code	Yes / No
10	Whether in the case of a junction with an existing railway, the plan has been shown the existing line for not less than one km on each side of the proposed junction ? Ref: Para 457 of Engg. Code	Yes / No
11	Whether for the purpose of new railway line & for the accommodation for the public, all new works proposed are marked, also all alteration, diversion, protection work & proposed in connection with existing railways, roads, rivers, cannels & tanks? Ref: Para 456 of Engg. Code	Yes / No

SI No	Item	Reference
12	Whether the formation level are shown by red line and ground line being black? Ref: Para 458 of Engg. Code	Yes / No
13	Whether height of ground above MSL, height of formation above MSL are given in meters to two places of decimals at every 20 mts. and vertical lines are shown in blue ? Ref: Para 459 of Engg. Code	Yes / No
14 (i)	Whether gradients are entered in a plain and conspicuous manner?	Yes / No
(ii)	Whether at each change of gradient an ordinate are drawn in red upto formation level and height of formation noted to two places of decimals where a change of gradient occurs at any point other than at the 20 mts ?,	Yes / No
(iii)	Whether the chainage of changing point are noted? Ref: Para 461 of Engg. Code	Yes / No
(iv)	Whether Gate post are lying within Pts & Xing zone	Yes / No
15	Details of curves:	
	A. In case of doubling project	
i)	Whether the list of existing curves, showing the details like degree of curve, SE provided, permitted speed on the curve, versine provided, transition length provided are shown ?	Yes / No
ii)	Whether the list of proposed curves showing the details like degree of curves, SE provided, permitted speed on the curve, versine provided, transition length proposed are shown ?	Yes / No
iii)	Whether location of PSR's are identified & highlighted and the reasons for such PSR's are indicated in the letter ? (Curve/Pts & Xing/Visibility)	Yes / No
iv)	Whether list of proposed vertical curves & their chainage are given ?	Yes / No
v)	At the pts & xing away from transition curve	Yes / No
	B. For all the projects	
i)	Whether the details such as tangent points of all (TP CC & TPTC) curves, general description of soil, position of bridges, level crossings, diverted roads/ canals etc are shown? Ref: Para 462 of Engg. Code	Yes / No
ii)	Whether Proposed speed, SE, versine proposed are shown?	Yes / No
iii)	Whether list of proposed vertical curves & their chainage are given ?	Yes / No
v)	At the pts & xing away from transition curve	Yes / No
16	Whether cuttings are graded with special reference to efficient drainage? Ref: Para 466 of Engg. Code	Yes / No

SI No	Item	Reference
17	In the notes of the drawings/L-section the following items to be included	
i)	Whether ruling gradient is mentioned?	Yes / No
ii)	Whether curves are compensated or not ?	Yes / No
iii)	Whether Track Structure as per Railway Board's policy? Ref: RB letter No. 2004/CE-II/TK/VPolicy/Pt dt 19.7. 06	Yes / No
iv)	Whether designed speed for this project/line are given?	Yes / No
v)	Whether vertical curves are provided or not?	Yes / No
vi)	Whether Sanction particulars (Pink Book item) are given?	Yes / No
vii)	Whether minimum track centre considered for this project along with reference are given?	Yes / No
viii)	Whether type of load considered for design of the project are given ?	Yes / No
18	Whether the chainage of station limits and the top point chainages in the stations are given ?	Yes / No
19	In case of station yards, the gradient proposed shall be 1 in 1200 or flatter. In case deviation of this, Whether the detail reasons are indicated in the letter?	Yes / No
20	Whether cut and cover location & their chainages if any, are shown in case of doublings?	Yes / No
21	Whether land boundary details which are parallel to the alignment are shown?	Yes / No
22	Whether the L-section sheet, at each end repeated from the adjoining sheets are shown? Ref: Para 452	Yes / No
23	Whether the track centre between existing & proposed line are shown at every 50 mts interval in case of doubling/multiple lines?	Yes / No
23	Whether proposed land acquisition locations are shown?	Yes / No
24	The Kilometerage should be reckoned from the same fixed point. This fixed point should be at that end which is in the direction of nearest sea point. If the line takes off from an existing Railway Station, the zero point should be fixed at the centre of the existing station yard. Each sheet should be plotted in the direction of the through km so that kilometer may be read from left to right. Whether these are indicated or not ? Ref: Para 445 of Engg. Code	Yes / No
25	In Case of Doubling	
i)	Whether the adequacy of track centre at major bridge location to avoid infringement to existing foundation are shown?	Yes / No
ii)	Whether the adequacy of track centre at minor bridge location to avoid infringement to existing foundation are shown?	Yes / No
iii)	Whether the spans/waterways provided as per the existing bridges or not ?	Yes / No
26	In case of New lines	
	Whether the bridge span provided are as per the detailed calculation or not?	Yes / No

	For L C's	
27	New line:	
(i)	There is no level crossing on the proposed line.	Yes / No
(ii)	Level Crossings are being provided on the proposed line and is certified that: a. Project has been sanctioned/under sanction on socio economic grounds with Rte of Return less than 10%. b. Formation level does not permit the constuction of RUB/ROB without raising the formation level specifically to accomodate them and with no extra land acquisition. c.Proposed level crossing are interlocked.	Yes / Not applicable
28	Doubling/3rd/4th Line:	
(i)	New Level Crossings are not being introduced In the system.	Yes / No
(ii)	All Level crossings have been planned for elimination,chargeable to project Estimate.	Yes / No
(ii)	If all Level crossings have been planned for elimination,chargeable to project Estimate, it is certified that LHS/RUB applicable are not feasible for the Level Crossings proposed for retaintion.	Yes / Not applicable
	For Bridges	Remarks
29	Whether direction of flow of bridges have been shown in alignment plan?	Yes/No
30	If existing bridge required to be extended, then whether it has been ensured that the load of proposed track is not shared by existing Bridge? (If load from new track comes on existing bridge, then it's strength should be checked and if existing bridge is unable to share the extra load then necessary strengthening and or replacement of existing bridge should be planned)	Yes/No
31	Whether water ways of the proposed bridges is not less than that of the existing railway bridges subject to minimum water way as per the practice in vogue? (Adequacy of existing water way to be ascertained from divisional engineering officers before approval GAD)	Yes/No
32	Whether the minimum head room of 1.20 m for all Bridges has been kept as per correction slip no. 25 to IRBM?	Yes/No
33	Whether minimum clear span of 1.00 m for all Bridges has been kept as per correction slip no. 25 to IRBM.	Yes/No
34	Whether proposed and existing Bridge wise of	Yes/No

	proposed and existing span, type of proposed bridges has been furnished in the L-section?	
35	Whether it has been ensured that extension of each Existing Bridge is proposed in front of existing Bridge (in alignment)?	Yes/No
36	Whether minimum loading standard of the bridges is 25t axle load-2008 & is mentioned in L-section.	Yes/No
37	Whether efforts have been made to configure the Railway Bridges in such a way that all the relevant standard RDSO drawings are adopted?	Yes/No
38	Whether formation levels at Bridge portion match with the proposed L-section?	Yes/No
39	Whether steel girders have been proposed for the bridges having span more than 24.40 m?	Yes/No
40	Whether RDSO's standard spans have been proposed for ROBs?	Yes/No
41	The proposed span of proposed Bridges/ROBs/RUBs/LHSs as mentioned in L-section is tentative. L-section is not an authenticity to follow the arrangement. GADs should be got approved duly following relevant guidelines before commencement of work.	Yes/No
42	Whether any stone slab bridge getting sandwiched between 3rd & 4th line? If yes, action to rebuild before construction of new bridge for 3rd & 4th line?	Yes/No