

**Railway Board's Orders on Agenda Items Discussed During 4<sup>th</sup> Meeting of Works Standards Committee, Held On 19<sup>th</sup> & 20<sup>th</sup> Jan.'12 At Bhubaneshwar**

SL	Agenda No.	Description of Item	Recommendations of 4 <sup>th</sup> WSC	Railway Board's Orders
1.	Item No. 002/01/05	Strengthening Of Organization For Works At Various Levels	<ol style="list-style-type: none"> <li>1. As already decided, the item related to separate work cadre in the division is closed.</li> <li>2. The measures suggested by Railway Board for strengthening the work cadre may be implemented on Zonal Railways for functional improvement.</li> <li>3. For technical training, the services of outside institutions may be taken by ZTS or Divisional Training School. Training in institutions having core competence in these fields may be utilized for senior supervisory levels &amp; officers by nominating them directly.</li> <li>4. Practices being followed by Zonal Railway can be put on e-based portal which can be shared by all Railways. IRICEN may provide link to this portal on its web site.</li> </ol> <p>Item is proposed for closure.</p>	<p>Non-Railway Institutions (within India) imparting training to engineering officers, supervisors and artisan staff shall be identified by IRICEN and RDSO and submitted to Railway Board for formation of standing panel. Care should be taken that training institutes for artisan staff may have proximity to their respective HQ. IRICEN, RDSO and all Zonal Railways have already been advised in term of Board letter no. 2012/LMB/8/1, dated 23-1-2012.</p> <p>Name of the training programme, its duration alongwith approximate cost and justification shall be prepared jointly by IRICEN &amp; RDSO and submitted to Board within a month. Training programme may cover all spectrum of technical aspects, quality test &amp; control and managerial skills.</p> <p>RDSO shall circulate the instructions as approved by Board to all Railways/PUs etc. for implementation.</p>
2.	Item No. 003/01/05	Unified Works Specifications And Basic Data Sheets For Preparation Of SOR	<ol style="list-style-type: none"> <li>1. USSOR has not been prepared by ECR &amp; NER. CE/W/ECR &amp; CGE/NER to ensure finalization of USSOR by March 2012.</li> <li>2. Feedback on further improvement of USSOR and new NS items be submitted to Board for consideration &amp; inclusion in USSOR.</li> <li>3. SCR issued instructions regarding operation &amp; approval of NS items through Engineering</li> </ol>	<p>PCEs of NER &amp; ECR shall ensure that USSOR of their Railways are finalised, issued and implemented latest by 31.3.12.</p> <p>EDCE/G, Railway Board will monitor and coordinate for items 2, 4 &amp; 5 of the recommendations w.r.t. IR's USSOR.</p> <p>Railway Board have already asked Zonal Railways to</p>

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			<p>Standing Orders. Similar instructions can be issued by other Railways.</p> <p>4. Concordance table linking SOR items with specifications Para need to be provided by collective efforts with following distribution of SOR Chapters :</p> <p>SCR Chapter 1 – 5</p> <p>SR Chapter 6 – 10</p> <p>SECR Chapter 11 – 15</p> <p>NWR Chapter 16 – 20</p> <p>NCR Chapter 21 – 25</p> <p>Results may be advised Board within next two months.</p> <p>5. Item 007/01/05, i.e. New Building Material shall be a standing item of WSC.</p> <p>Therefore, this item is proposed for closure.</p>	<p>advise corrections and additions/ modifications to the approved USSOR, so that Correction Slip may be issued. Railways to ensure required inputs to the Standing Expert Group latest by 10<sup>th</sup> March '12.</p> <p>Item is closed, except for continuation of item no. 007/01/05, i.e. New Building Materials, which shall be a Standing Agenda Item in all meetings of WSC.</p>
3.	Item No. 004/01/05	<p>(a) Standardization of flooring of platform, concourse &amp; FOB and platform cover sheds based on categories of stations (A, B, C &amp; others).</p> <p>(b) Standardisation of Workshop flooring.</p>	<p>1. Standards approved for flooring &amp; finishing at station premises are satisfactory and do not require any modifications for the time being.</p> <p>2. WSC endorsed the recommendations for roofing material for platform covering &amp; workshop flooring with following modifications.</p> <p>(a) Polycarbonate sheets proposed as roofing material shall be limited to approx 10% area for lighting/aesthetic purposes with approval of Zonal Headquarters.</p> <p>(b) VDC in acid proof floor for workshop flooring be made 75 mm instead of 50 mm.</p> <p>With the above modifications, sub-committee may submit their recommendations to Railway Board.</p>	<p>WSC's recommendations are accepted except that Polycarbonate roofing shall be provided as per local requirement and VDC flooring should be minimum 100 mm thick.</p> <p>Sub-committee shall submit modified recommendations by March 2012.</p>
4.	Item No. 005/01/05	Review of Indian Railway Works Manual	<p>1. The Works Manual should be in two parts, the main Manual &amp; Annex, quoting references to NBC, IS Codes etc.</p>	<p>WSC's recommendations are accepted.</p> <p>Sub-committee shall submit the Draft Works Manual and</p>

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			<p>2. Sub-Committee to prepare draft Indian Railway Work Manual through special meetings to be convened by Dean/IRICEN, Pune.</p> <p>3. After deliberation by sub-committee &amp; getting feedback from Zonal Railways, draft be submitted for further consideration &amp; approval.</p>	<p>make presentation to Board by April 2012.</p> <p>Thereafter, draft will be circulated to Zonal Railways for their comments within next 15 days. Sub-committee shall accordingly modify the draft document and submit final to Board by June 2012.</p>
5.	Item No. 006/01/05	Review of Provisions Of IRWM & Engineering Code Regarding Measurement	Recommendation of sub-committee shall be finalized by Feb. 2012 and sent to WSC members through e-mail & thereafter submitted to the Board for approval.	<p>WSC's recommendations are accepted.</p> <p>Sub-committee shall also study the practices being followed in other organizations regarding system of recording of measurements and competency of initiating officials for recording of measurements including recording of measurements by contractors and submit the recommendations by March '12 for consideration of Railway Board.</p>
6.	Item No. 007/01/05	New Building Materials	This item is proposed for closure in view of standing monitoring item on new materials proposed to be included.	This item shall be the Standing Agenda Item in all the meetings of WSC.
7.	Item No. 008/01/05	Rationalisation of maintenance practices : Maintenance of leaky roofs	<p>Committee observed that most of the practices being followed in Railways have already been incorporated in USSOR.</p> <p>In case new product/practice is found suitable same should be forwarded to Expert Group on USSOR.</p> <p>Item is proposed for closure.</p>	<p>Any new product tried and tested in field may be incorporated as SOR item in USSOR as per prescribed procedure through Standing Expert Group.</p> <p>Item is closed.</p>
8.	Item No. 009/01/05	Rationalisation of yardstick for Works organization	The report submitted by Sub-Committee may be submitted to the Board for approval	WSC's recommendation is accepted. Sub-committee shall submit the recommendations for consideration of Railway Board by 15 <sup>th</sup> March 2012.
9.	Item No. 018/02/06	Provision Of Green Building Concept In	1. Works Manual Sub-committee to incorporate a Para/Chapter	WSC's recommendations accepted except (3).

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		India	<p>on Green Buildings.</p> <p>2. IRICEN/Pune to include Green Building Concept in curriculum.</p> <p>3. Type plan of Type II, III &amp; IV quarters be got approved from Indian Green Building Council to have green building.</p>	RDSO shall develop type plan along with framework & guidelines for the Green Building Compliant Design of quarters of type-II, III, IV and V. Its cost and financial implication shall also be brought out by RDSO. Report shall be submitted to Board and presentation made by RDSO in next WSC.
10.	Item No. 019/02/06	Change In System Of Maintenance Of Colony	<p>1. System of BHEL/CPWD like organisation also be studied before finalisation of recommendation.</p> <p>2. Main items which need to be maintained properly in even lowest category house are:</p> <ul style="list-style-type: none"> <li>- Leakage free / dampness free environment.</li> <li>- Proper doors and windows.</li> <li>- Uniform / leveled flooring.</li> <li>- Proper water supply.</li> <li>- Proper water closets.</li> <li>- Proper sanitation / drainage.</li> <li>- Proper walkable road in front of quarter.</li> <li>- Fencing to feel personal belonging.</li> </ul> <p>3. The Sub-Committee should submit their recommendation within stipulated time period of 30.4.2012.</p>	<p>WSC's recommendation regarding study of System of CPWD/MES and other like organizations &amp; PSUs by sub-committee before finalization of their recommendations is accepted.</p> <p>Sub-committee to submit their recommendations by 30.04.2012.</p>
11.	Item No. 021/02/06	Prefabricated Buildings	<p>1. Zonal Railways should submit details to RDSO. The details available with IRICEN should also be taken. RDSO will also collect details from the manufacturers and other organizations.</p> <p>2. CPDE/SER mentioned that details of porta-cabin are available in the list of DGS&amp;D. He should circulate the details to all Zonal Railways.</p> <p>3. EDCE/G will co-ordinate for providing portal for sharing information. Such details may</p>	<p>WSC's recommendations are accepted with the proviso that IRICEN shall place on their website information on new building materials and related issues &amp; concepts.</p> <p>The information available herein shall be utilized by the Standing Expert Group on IR's USSOR.</p>

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			<p>be loaded on the portal by Railways who may be provided administrative control for loading &amp; viewing by others.</p> <p>4. Every six month updates shall be circulated.</p>	
12.	Item No. 022/03/08	<p>Standardisation of Various Drawings on Indian Railways.</p> <p>(i) Platform layouts</p> <p>(ii) Station Name Boards</p> <p>(iii) Water booth, taps</p> <p>(iv) Gate Lodge</p> <p>(v) PF Walls/ RCC coping</p> <p>(vi) Platform Benches</p> <p>(vii) Pale Fencing</p> <p>(viii) Standardisation of PF shelters</p>	<p>1. Committee observes that drawings may not be standardized as this kills innovations. The information should be shared by providing details on Civil Engg Portal. EDCE/G may co-ordinate to provide linkage on the portal like IRPSM software. Railways can upload their excellence in sub groups.</p> <p>2. There is need to standardize the low cost mini-platform shelters.</p>	<p>WSC's recommendations are accepted with the proviso that IRICEN shall provide place on their website for Railways to upload their excellences on this portal.</p> <p>Linkage to this information through IRPSM shall be organised by EDCE(G).</p>
13.	Item No. 023/03/08	Standardisation of Landscaping Area At Various Class Of Stations on Indian Railway	<p>Based on available land, Railways may provide landscaping. Works Manual sub-committee shall provide suitable para on the subject.</p> <p>Item is proposed for closure.</p>	<p>WSC's recommendation is accepted.</p> <p>Item is closed.</p>
14.	Item No. 024/03/08	Development of Master Plans for Infrastructure Facilities at Stations & Colonies on Indian Railway	<p>1. Good practices being followed by organization whose core area is construction &amp; maintenance of colonies etc. be imported by Railways and experiences shared through portal being provided.</p> <p>2. This item be closed and new item for office accommodation at station be continued &amp; information on radial type water supply distributions &amp; centralization of hydrant valve and centralized control and monitoring of water supply system at station be circulated by NCR to all Zonal railways.</p>	<p>NCR, WR and SCR shall develop arrangements for 'Valve Panels' for centralized water supply arrangement at station, yards, colonies etc. and report to Railway Board by end of May 2012.</p> <p>Zonal Railways shall also upload their excellences including information on radial type water supply distribution and centralized operation of hydrants on the Engineering portal for cross sharing.</p> <p>Item is closed.</p>

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15.	Item No. 025/03/08	Provision of Tool Kit With Artisan Staff On Indian Railways	<ol style="list-style-type: none"> <li>1. No need to standardize the kit.</li> <li>2. Each Railway to nominate 2 artisans each who are sincere, young &amp; not from divisional HQ &amp; send for training in NICMAR, Hyderabad and advise to IRICEN.</li> <li>3. IRICEN to co-ordinate &amp; tie up with NICMAR for training of artisans.</li> <li>4. System support &amp; free kit will be a part of the training &amp; kit.</li> <li>5. Tool kit shall be as per our requirement.</li> </ol>	<p>WSC's recommendation regarding training by IRICEN from NICMAR is accepted.</p> <p>A comprehensive list of tool kit including battery operated tools shall be prepared for artisan staff of all categories keeping in view the multi-skilling operations.</p> <p>IRICEN &amp; RDSO shall prepare 'Tool Document' containing Specifications of tools along with scale of tool kit, adequate inventories and consumables with each artisan staff.</p> <p>RDSO shall circulate the 'Tool Document' to the Zonal Railways/PUs etc. for implementation.</p> <p>These details will also be advised to the Standing Expert Group for IR's USSOR who shall incorporate these items in the USSOR document for uniform implementation on IR system.</p>
16.	Item No. 026/03/08	Manual on Passenger Amenities on Stations of Indian Railway	<p>Presentation on the Manual on Passenger Amenities on stations of Indian Railway was delivered by RDSO. Committee observed that there are variations in the level of amenities proposed by sub-committee &amp; presently approved by Railway Board.</p> <p>Railway Board may approve the guidelines at the earliest.</p>	<p>RDSO shall submit 8 copies of the guidelines prepared for circulation to concerned Directorates for study and finalization in Railway Board.</p>
17.	Item No. 027/04/12	Standard procedure for ducting and wall recess in buildings	<p>Committee observes that this issue requires administrative decision through JPO which can be issued by Railways on the lines of SC &amp; SECR. Railway Board is also requested to issue guidelines in this regard</p>	<p>WSC's recommendation is accepted.</p> <p>Joint Guidelines with Electrical &amp; Telecom Directorates from Railway Board shall be considered.</p>
18.	Item No. 028/04/12	Outsourcing of maintenance works related to water	<p>This is administrative matter &amp; Railway may take decision within their power.</p>	<p>WSC's recommendation is accepted</p> <p>Item is closed.</p>

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		supply and sanitation	This item is proposed for closure.	
19.	Item No. 029/04/12	Hoisting of the Passenger Amenity Data on website	ED/L&A advised that Railway Board is working on the development of software which is expected in next 2 – 3 months which will facilitate hoisting of passenger amenity data on website.	Passenger Amenity Data shall be hoisted on the website of 'IRPSM' by ED/L&A-III in Railway Board.  Item is closed.
20.	Item No. 030/04/12	Standardization of GCC for entire Indian Railways	Item discussed & dropped.	Updated version of IR's General Conditions Of Contract is being issued by Railway Board in April 2012 and it will be available on Railway Board's website for uniform adoption on Indian Railways.  Item is closed.
21.	Item No. 031/04/12	Guidelines on Retrofitting of Existing Buildings	Sub-committee may be formed to finalise the guidelines prepared by RDSO as under:  1. Shri S. M. Maheshwari, ED/W /RDSO, Convenor 2. Shri R. P. Saxena, CE/W/WR 3. Shri K. M. Tripathi, CPDE/ NFR 4. Shri Alok Verma, CE/HQ/WR 5. Shri S. K. Garg, SP/Works/ IRICEN	WSC's recommendation is accepted.  Sub-committee to finalise the guidelines prepared by RDSO and submit to Railway Board for approval by end of April 2012.
22.	Item No. 032/04/12	Enhancement of plinth area of Quarters	1. This needs to be checked with Ministry of Urban Development whether any enhancement of area has been done by them.  2. Committee deliberated & proposed that area needs to be increased as following :  Type II - 55 sqm Type III - 70 sqm Type IV - 125 sqm + 20 sqm servant quarters. Type V - 160 sqm + 20 sqm servant quarters.	To be considered appropriately in Railway Board.  Item is closed.
23.	Item No. 033/04/12	Standardization of facilities for Engineering Department at Stations	1. At Type A-1, A & B stations & where IOW is headquartered, a service room may be provided for Engineering Deptt for maintenance staff & IOW at the	WSC's recommendation is accepted. It may be included in I.R. Works Manual under revision.

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			<p>end of the home platform or mezzanine floor or suitable place with pathways to connect all the platforms.</p> <p>2. IOW &amp; his staff may be given walkie-talkie to have connections with related station staff.</p>	
24.	Item No. 034/04/12	Detailed guidelines for site order book, Material passing Register, quality of Cement & Steel	<p>Sub-committee of Shri J. K. Singla, CPDE, SECR as convener &amp; Shri Venkataswar Rao, CE/W/SCR is nominated to study the various guidelines/ circulars of Railways.</p> <p>Committee may submit detailed guidelines with formats to Railway Board under advise to Member Secretary/WSC by April 2012.</p>	WSC's recommendation is accepted. Sub-committee shall submit its recommendation by 30.04.12.
25.	Item No. 035/04/12	Penalties for non deployment of Engineers by Contractors at worksite	<p>1. The imposition of penalty for non engaging the engineer may be enhanced as :</p> <p>For degree holder Engineer - Rs. 40000.</p> <p>For Diploma holder Engineer - Rs. 25000.</p> <p>2. Penalty for non-engaging the engineer on contracts costing above Rs 5.0 Cr to be decided by CAO/C depending upon the nature of work.</p> <p>3. Full time employment of contractor's Engineers and their duties with site supervision specifically should be ensured.</p>	The matter to be suitably examined in Railway Board with correction slip to the concerned clause of GCC and standard special conditions / instructions to tenderers.
26.	Item No. 036/04/12	Appreciable improvement of existing Railway Colonies and to develop Model Colonies for maximum staff satisfaction	<p>System of SIG for colony be implemented for improvement of existing Railway colonies.</p> <p>It is proposed for closure.</p>	<p>WSC's recommendations are accepted.</p> <p>RDSO shall prepare comprehensive circular within two months for SIG inspection of colonies by all concerned departments at various levels at Division &amp; HQ and submit to Railway Board for approval.</p>
27.	Item No. 037/04/12	Planning of expeditious completion of works	Existing instructions are considered adequate. No further instructions are required & item is	WSC's recommendation accepted.



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		say 1-3 years	closed	Item is closed.
28.	Item No. 038/04/12	Standard drawings for Platform Shelters with openings for OHE mast in sloped corrugated sheet roofing	Committee recommends that sealing arrangement to prevent ingress of water on the platform from opening due to OHE mast projecting out of shelter may be designed. SR to suggest the measure to be taken in this regards alongwith drawings & send it to RDSO. RDSO in association with Traction Installation Directorate may finalize it.	WSC's recommendation accepted. ED/Works/RDSO will coordinate.