

From
ICF Staff Club
AG129/18,VII Main Rd
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To

INTEGRAL NEWS

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Email: integralnewsicf@gmail.com

Contact: **9003141464**, 9003149539, 9003149659

Chief Editor: K.Ravi, SSE/Shop80

Associate Editors:

M.A.Jaishankar, SSE/M&P

A.R.S.Ravindra, SSE/WS

K.Sudhir, SSE/Shop41

Treasurer:R.Mehalan, Ex-SSE/IT-ICF

Shell Offices:V.Ramesh, SSE/Project

S.K.Satishkumar, SSE/M&P

K.Sekar, OS/Engg

N.Jeganivasan, Stores Inspector

N.Ganesh,SSE/MPO/S

N.Vijayan,Ch Typist/Plant

S.Ghatikachalarao,SSE/WS

N.Devaraju, SSE/Plant

S.N.Vivekanandan, Ch.OS/P9

Shell Shops: P.Baskaran, SSE/40

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B-shed: A.V.Gopalakrishna, SSE/22

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40,J,E: R.Lakshminarayanan, SSE/40

Stores: K.Thiyagarajan, CDMS

RT,RPF: R.Kasim, JE/48

11,23,41,TS:R.Jegathiswaran,SSE/41

Insp: J.Ananthakumar,SSE/42

Progress: M.Saravanan,SSE/PCO

CMT: G.Sivakumar, CMS-1

Electrical:D.T.Vijayaraj,SSE/45

Fur Offices:Harikumar.NV,SSE/MPO

Accts: Sudharsan.MN,SSO/Accts

PlgF,TS: G.Muthukrishnan,SSE

Stores:V.V.Mahadevan,OS/P8

Fur Shops: R.Sundarrajan,SSE/30

30: Bipinkumar Karn, SSE/30

31,32,34: P.Satyanarayana, JE/34

33,CMT,38:D.R.Suresh,SSE/33

80,81,37:D.Santhakumar,SSE/80

88: K.S.Rajakumar, SSE/88

Elect: M.Devaraj, SSE/85

36,54: A.Srivijayan,SSE/54

Progress:D.Baskar, SSE/PCO

TTC: J.Selvakumar,SSE/TC

D&D: Sabapathinathan.M,SSE/D&D

Hospital: Raju Balaji, Ch.OS

Web: K.Chandran, Webmaster/IT

Advisors:

S.Muthukumar, Dy CME/TPTY/SCR

B.Chandrasekaran,SME/D-II

K.N.Mohan, WM/A/S

R.Srinivasan, APE/PR/F

अभय कुमार खन्ना
महाप्रबंधक
ABHAY K. KHANNA
General Manager



सवारी डिब्बा कारखाना
चेन्नै - 600 038
Integral Coach Factory
Chennai - 600 038



Dated: 24.12.2012

I am very happy that the 'integral news' magazine published by ICF staff club brings out various interesting and useful information and updating the staff with latest developments in Indian Railways. Information given at 'About ICF' column is very impressive and educative of historical relevance.

During the year 2011-12 we achieved the highest ever production of 1511 coaches. We are poised to exceed this figure and meet the challenging target of 1601 coaches in the current year.

We have also achieved milestones like crossing 45000th coach mark and winning the Golden Peacock Eco-innovation Award. These would not have been possible without your dedication and support.

While milestones & accolades are coming our way, I need to remind every member of ICF of the need for sincerity and honesty in their work.

I am confident that ICF will be able to achieve many more challenges in the years to come and continue to be the market leader.

I also take this opportunity to extend my warm greetings to you all for a very happy, healthy and peaceful New Year- 2013.

My best wishes to Integral News team for their dedicated service to the staff of ICF.

(Abhay K. Khanna)
General Manager



Shri Abhay K Khanna, GM/ICF inaugurating One Day Technical Seminar on "Modern Welding Techniques For Railway Coaches" at AWTI on 17th Dec.



RPF Shell post was inaugurated by GM/ICF on 12th Dec.



Mahaparinirwan divas was observed on 6th Dec. CME, other officers and staffs garlanded the bust of Bharat Ratna Dr B.R.Ambedkar at the lobby of shell admn building. They also participated in the programmes organised at various shops.



Automatic Dosa preparation machine was inaugurated by GM/ICF on 3rd Dec at Shell & Fur workers canteen.



The first LHB EOG coach was flagged off from furnishing on 15th Dec by GM/ICF.



French delegates visited ICF on 3rd Dec. They visited both Shell & Fur and had discussions with GM & officers.



On 29th Nov, GM had a meeting with ICF sports persons and sports assn members and appreciated the good performance of ICF team in various events.



• Boomi Pooja was performed in presence of GM/ICF on 24th Dec at North colony for construction of Type-1 Quarters.



Pension adalat was conducted on 15th Dec, at ICF.



Prototype of FIAT bogie bolster was manufactured with the available material and machines to expedite the process capability. All the bought out Forged & Cast sub-assemblies were manufactured in-house with available resources. All the assembly, machining and welding were carried out without any assembly fixtures, machining fixtures, welding manipulators and special purpose machines as in RCF. The completed bogie bolster was seen and appreciated by GM/ICF & GM/RCF.



Sri. K.Kandasamy, Constable/RPF Kennel/ICF had participated in the Inter Railway RPF Videography and Photography competition-2012 held at Bhopal from 05.12.2012 to 07.12.2012 and won the first prize in the Videography. Sri. S.C.Parhi, CSC/ICF and Sri. Sai C.S. Singh, ASC/ICF congratulated Sri. K.Kandasamy and suitably rewarded him with cash award.



Sri S.Bhagavathi, Tech2/Shop32 has won the silver medal by lifting 597.5 Kgs in the Asian weight lifting championship held at Coimbatore from 10th Dec to 14th Dec.

OFFICIAL POSTINGS

Name S/Shri/ Smt	Previous	Present
H.V.Ramakrishna Murthy	AEE/M-2	AWM/E-1
K.Ezhilarasu	AWM/E-1	AWM/E-2
A.Anthonraj	AWM/E-2	AWM/E-3
R.Subbaiah	AWM/E-3	AEE/M-2
S.Kamaraj	AEE/Liaison	AEE/Plg
E.Jothipandian	AEE/Plg	AEE/MPO/F
T.Govardhanan	SSO/Accts/S	AAO/SB/F

STAFF INFLOW - LAST MONTH

Sl	Name S/Shri	Design	Shop
1	G.Saravanan	San Cleaner	Hospital
2	Bipin Bihari Sharma	App Mech	TTC
3	R.Venugopal	Tech-3	Sh-30
4	G.Loganathan	Helper	Engg
5	P.Satheesh Kumar	Helper	Engg

EMPLOYEES RETIRING on 31st January '13

1	Dr.S.X.Sampathrajan.	C.P.O	
2	Ramasubramanyam .M	Ch.Photograpr	
3	Dakshinamurthy.V	Sr.Tech-Elec	10
4	Kesavan.V	Sr.Tech-MSM	10
5	Venkataraman.R	Sr.Tech-MSM	10
6	Chellappa.S	Sr.Tech-Weld	13
7	Kondaiah .T	Sr.Tech-Weld	14
8	Gangadaraperumal .R	Tech-1/MGL	16
9	Dorairaj.M	Sr.Tech-FGL	21
10	Natarajan .G	Sr.Tech-FGL	22
11	Sugumaran .B	Tech-1/FGL	22
12	Venkataraman .S	Tech-1/Weld	22
13	Gunasekaran .D	Sr.Tech-Paint	25
14	Mohamed Khadher.	Sr.Tech-FGL	26
15	Dayanandam.V	Tech-1/FGL	26
16	George.K G	SSE	TS/S
17	Venkateswaran S .	Sr.Stock Verfr..	SV/S
18	Parthiban .S	SSE	D&D
19	Devadoss.P	SSE	PCO/F
20	Barnett .Gr	JE	28
21	Jeyaraj.A	Tech-1/Elec	29
22	Gnanasekaran.K	Sr.Tech-Carp	30
23	Muthu .M	Tech-1/Carp	30
24	Mohanan .V	Tech-1/FGL	30
25	Srikanthan .G	Tech-1/Carp	32
26	Kuppuswamy .M	Sr.Tech-Weld	33
27	Rajamanickkammani.M	Tech-1/FTR	81
28	Thulasiram .CV	Sr.Tech-Elec	85

Integral News wishes them A HAPPY AND PEACEFUL RETIRED LIFE.

STAFF OUTFLOW - LAST MONTH

Sl	Name S/Shri	Design	Mode
1	A.Kannan	Tech-2/22	Resigned
2	L.Nasreen Begum	OS/Stores	V.R

WE DEEPLY MOURN THE SUDDEN DEMISE OF THE FOLLOWING EMPLOYEES

Sl	Name S/Shri	Designation
1	I.Nageswararao	Tech-2/Shop39
2	T.Aboobackar	SSE/Shop41
3	M.Gunasekaran	Tech-2/Shop54
4	G.Santhiagu Ragu	Tech-2/Shop41
5	G.Ramkumar	JrProgMan/plg/S
6	K.Vaidyanathan	OS/Stores/Fur



Integral News deeply mourns the sudden demise of Sri. T.Aboobackar, SSE/Shop-41 on 19th Dec, due to an accident near 'B' shed of shell division.



IRTSA/ICF-unit conducted a condolence meeting to departed Engineer Late Sri.T.ABOOBACKAR, Sr.Section Engineer, Shop-41/Tool Room, on 20.12.2012 at 11.40hrs in front of Admn. block and as a token of respect, observed two minutes' silence. CP/IRTSA had read the memorandum about safety aspects to all the gathering and later submitted the same to the respected GM/ICF. GM/ICF also shared his grief over the tragic incident and assured that safety will be reviewed on priority and the bereaved family will be given a helping hand in all respects. Large numbers of Supervising Engineers and officers had gathered to show their condolence.

Smt. Poonam Mittal, President, Railway Women's Welfare Central Organisation (RWWCO) inaugurated the Sports Meet for the children of officers and staff working in Railway Board and the PSUs under the Ministry of Railways, at New Delhi, on 17th Dec. Nearly 200 children in the age group of 7 to 15 years participated in the day long event. Shri Vinay Mittal, Chairman, Railway Board, who was the Chief Guest at the function, gave away the prizes to the winning children. Around 60 children bagged various prizes in a total of 18 sports events for boys and girls.

CIRCULARS

AC48: Rates of night duty allowance wef 01.07.12

AC49: List of holidays for the year 2013

Last date for submission of application:

For 4 posts of instructor JE/Mech (Ex-cadre GP4200) and 3 posts of CMA (Ex-cadre) = 18.01.2013.

C.Rly Gr-D Scout quota = 8.1.2013

C.Rly Gr-C&D Posts against sports quota = 28.01.13

- Apart from the general staff grievance registrar, an exclusive grievance register is made available in all the shop floors for recording the grievance of SC/ST employees.

- The advance increments granted to Stenographers of Subordinate Offices on qualifying Speed Test in Shorthand at 100/120 w.p.m. in terms of Department of Expenditure OM dated 04.10.1975 are to be treated as pay for all purposes and the past cases are also to be regulated accordingly. These advance increments were therefore to be taken into account for fixation in the Revised Pay for those officials who were in receipt of such increments in the pre- revised pay.

- CMM/Project has been nominated as member of staff council to represent stores dept in place of CMM/F owing to administrative exigencies.

- ACP/MACP Schemes have been introduced by the Government in order to mitigate the problems of genuine stagnation faced by employees due to lack of promotional avenues. Thus, financial upgradations under ACP/MACP Schemes CANNOT be to a higher Grade Pay than what are allowed to an employee on his normal promotion. In such cases, financial upgradation under MACP Scheme would be granted to the same Grade Pay.

- RITES Limited has submitted the report for ICF switching over to Manufacture of LHB coaches. The cost involved for mechanical portion is estimated at Rs.400 Crores.

- Revised estimate has been sanctioned by the Railway Board for increasing the capacity of Spring shop to 75,000 springs per annum at a cost of Rs.86 Crores.

The President of India, Shri Pranab Mukherjee, presented the 11th National Energy Conservation Awards – 2012, to Indian Railways, the highest ever by any Indian industry, for the remarkable achievements by its Zonal Railways in Energy Conservation initiatives during the year 2012, at a function at New Delhi. In order to intensify the energy conservation initiatives, Ministry of Power has instituted "National Energy Conservation Award" which is given on National Energy Conservation Day on December 14 every year. These awards are given to 11 major category (like Railways, hospitals, office buildings, industry, power plant etc.) covering 35 different subsectors of large and medium scale industries mainly on the basis of improvement in specific energy and energy conservation initiatives.

ABOUT ICF

by Sri R.Srinivasan, APE/PR/F, 9003141449

This shed situated between D and F, consists of Shop 16 , Machine shop.

This Shed is having an area of 9300 SqM with 4 bays. This Shop has various machines arranged in group to form a Process Layout. All along the years it was a very vital shop feeding the entire requirement of all the manufacturing details & sub assemblies, which require machining and/or welding and catering to bogie frame assembly, bogie assembly, bogie bolster, under frame, roof and final assembly. Due to the increased out turn target certain components are bought from trade.

Components Made:

Lower Spring Seat assy (100%), Brake Beam assy (100%), Side bearer (100%), All Brake Levers (100%), Axle collar ring set (50%), Wearing plates etc and details/sub assy of Special built coach like DPC, HHP, and SPART etc. are manufactured in Shop 16.

Sections: It consists of 11 sections as listed below.

	Section Detail	Sec Code	Work carried
1	Welding section	1611	Fabrication of sub assembly such as BG Brake Beam, BG & EMU LS Seat complete, etc by CO2 welding
2	Fitting section	1612	Assembling of BG & EMU Brake Head, Manual marking for drilling of brackets, deburring of all machined items
3	Center lathes	1620	LS Seat copy turning & honing, Suspension pin Hand Br Screw rod, Nut & Details
4	Light Duty Capstan Lathe	1631	To manufacture bushes, boss, studs, bolt, pins etc for bogie frame, Bolster etc
5	Heavy Duty turret Lathe	1632	Machining, CP Pin Machining, EM LS seat etc
6	CNC section	1633	Axle collar Ring set, Ls seat profile turning, BG/HHP, CP Pin BG/EMU/Kolkata profile turning etc
7	Guide Section	1640	LS seat, Axle Box Guide, Side bearer bearing, Br beam End piece etc
8	Milling Section	1650	Wearing Plate, CP Pin, Side bearer bearing Piece, Suspension pin etc
9	Drilling Section	1660	Br Beam Details, Bogie frame Brackets, All Br Levers, CP Pin, Wearing Plate, Side bearer etc
10	Axle Box section	1670	Wheel disc, Body Bolster boring
11	Cutting section	1680	to cut Sq Bars, Rounds, tubes, flats etc

Raw Materials

Round Bars: 12, 16, 20, 25, 32, 36, 40, 45, 50, 56, 63, 76, 140 and 180 mm
 Sq bars : 50, 65 and 75mm
 Tubes : 40, 50, 114, 139. 152, 165, 219 mm
 Flats : 5 x 60, 6 x 40 and 12 x 63
 Gas cutting items like Brake levers Side Bearer Base plate, guide rail etc, from 8, 10 16 20 25 32mm sheets

Forged items like Axle Collar set, Center Pivot Pin BG & Kolkatta Metro, wearing plate, EMU Side Bearer bearing etc

Sheet metal items like Brake beam details, Br lever hangers, Ribs & webs etc from 3.15, 5, 6, 8, 10, 12 and 16mm.

MACHINES:

S L	Description	Make	Cap	Cost in Lac	Age
1	Copy lathe	Swiss Tool	Dia 180 mm	0.86	56
2	Horizontal Boring	SACEM	Dia 130 mm	163.7	23
3	CNC Turning centre	TRAUB	Dia 320* 1000mm	130	22
4	Vertical Turning Centre	HMT	1000* 500mm	105	22
5	Thread Rolling	PRAGA	Dia 55mm	14.2	21
6	SPM Axle box Machining	BFW	-	70.3	18

NOTE:

➤ Recently CNC Axle turning lathe, Axle Grinding M/c (2 No), and VTL for Wheel disc boring (2 no) were shifted from SHOP-12 and are installed in shop 16.

➤ Since Axle box is 100 % offloaded, the portion of the Axle box Section will be used for Wheel Disc boring in Future by shifting VTL From Sh-12.

➤ FIAT Bogie Machining centre is under proposal for installation in Shop 16.

CLASSIFICATION OF MACHINES:

Machines may be classified according to control such as

1. Conventional Machines in which all the controls are by mechanical means. Eg. Lathe, Shaper, Slotting machine, Drilling m/c.
2. Pneumatic Control machines in which Compressed Air is used to control the movements.
3. Hydraulic Control machines in which High Pressure Hydraulic Oil is used to actuate the movements.
4. NC machines:

NC means Numerical control.

- for controlling the motions of a slide and its auxiliary function i.e spindle movement, speed and feed with input in the form of numerical data.
- US Air Force developed the first "NC" machine in 1949. It was demonstrated in 1952.

5. PLC based machines:

- PLC: Programmable Logic Controller controls the peripheral actuating elements like solenoids, relay coils.
- Operates cyclically
- Program in the form of Ladder diagram, Control system flow chart, Statement list
- Eg: Traffic signal
- In 1968 -1977 First PLC introduced
- Dick Morley is Father of PLC

6. DNC based machines:

- Direct Numerical Control
- Introduced in 1968
- First of the computer control system
- Controlled by Mainframe computer
- Very expensive

7. CNC machines:

- CNC : COMPUTERISED NUMERICAL CONTROL
- It is the NC integrated with PLC using microprocessor.
- Between 1970-72 first Computer Numeric Control (CNC) machine was developed.
- CNC does arithmetic and logical functions .
- It is a micro processor based system to store and process data for control slide motion and auxiliary functions of Machine tools

A typical CNC system consists of the following six elements .

Part program -Series of Coded Instructions
Program input device -Punched tape or CD or Key board
Machine control unit -Data processing and Logic control
Drive system -Servo motor, Ball screw rod
Machine tool -Machine table, tool
Feedback system -Encoder, Tacho Generator

Features of CNC

- Storage of more than one part program.
- Use of diskettes.
- Program editing at the machine tool site.
- Fixed cycles and programming subroutines.
- Interpolation
- Positioning features for setup.
- Cutter length compensation.
- Diagnostics and communications interface.

CNC MACHINE PARTS

1. Machine structure
2. Guideways
3. Feed drives
4. Spindle and Spindle bearings
5. Measuring systems
6. Controls, Software and Operator interface
7. Gauging
8. Tool monitoring

ADVANTAGES of CNC

1.Productivity:

More time is used for Machining.
Less time is taken by positioning.
Reduced setup time increases utilization

2.Quality:

Accurate , More repeatable, Less waste due to scrap

3.Reduced inventory:

Reduced setup time permits smaller economic batch quantities.

Lower lead time allows lower stock levels.

Lower stock levels reduce interest charges and working capital requirements.

(-- to be continued)



A welding seminar on ‘Modern welding techniques for railway coaches’ was organized at Advanced Welding Training Institute on 17-12-2012. This seminar was organized exclusively by AWTI faculty members well supported by TTC faculties under the guidance of PTC/TTC, Dy.CME/QC & under the leadership of CME/QA. The seminar topics were chosen in line with the current requirements of railway coach building at ICF and have given good exposure to the modern welding practices. The organizers of seminar had taken every effort to make the seminar a grand success. Integral news congratulates the team of AWTI and TTC faculties.

ICF to aspire for international welding certifications standards ISO-3834&EN 15085 in line with the current requirements. Integral news congratulates first batch of welders (S/Shri Mohan Raj, Karthikeyan, Mohamed Ansari of shop-23, Ravi of Shop-13, A.N.Ganesh Babu-Instructor, AWTI) who volunteered for undergoing test as per international welding standards EN287.

One Officer and five AWTI faculties were awarded diplomas in welding by **International Institute Of Welding** during 2012 as International Welding Engineers and Technologists. They are competent to qualify welding procedures specifications as per international norms.

International Welding Engineer:

S/Shri N.Ranjit Raj, SME/M&P and T.S.Ravichandran, Chief Course Co-coordinator, AWTI

International welding technologist:

S/Shri R.V.Santhosh, Course Director, S.Annadurai & A.Subramani, Lecturers, A.N.Ganesh Babu, Instructor, AWTI.



PHYSIO PAGE
MOVE... TO REMOVE...!



Physio.Kumaravel.M

WISHING YOU A VERY HAPPY NEW YEAR 2013

To keep the NEW YEAR healthy & pain free, make out a rigid New Year resolution as follows:

1. Adopt a healthy and balanced diet.
2. Drink more water and fresh juices and avoid taking coffee and carbonated beverages
3. Eat more whole grains, fresh vegetables and fruits and avoid junk & deep fried foods, reduce sweets & sugars.
4. Do deep breathing exercises / pranayama regularly (5 to 10 min)
5. Have a Brisk walk daily (30 min)
6. Do Systematic physical exercise/yoga (at least 30 min of 3 to 4 days in a week) and maintain healthy body weight.
7. Have a Sound Sleep (not with snore) of minimum 6 to 8 hrs a day to recharge your body and yourself.
8. Do meditation/Prayer every day for short time.
9. Quit smoking habit if any, and avoid tobacco in any form.
10. Avoid Alcohol.
11. In between busy working, have a short **health break** like lunch and coffee break.
12. Have to follow necessary **life style changes** whenever required.
13. If you have crossed the age of 40, have medical checkup annually and dental checkup bi-annually.
14. **LAUGH...LAUGH... LAUGH...** for stress free life.
15. Fix your goal & work hard to achieve it.

Stick to the Resolutions and you can feel the difference
Wait for further Steps to Move

Rail passengers will now be able to book tickets to any destination in the country's railway network from post offices in Kerala. On 15th Dec, the Munnar post office became the first in the State to install the PRS of Railways and issue tickets to passengers. All facilities, including Tatkal, available to the public at the computerised reservation centres of Railways, will be available from the PRS installed at the post office.

A cycle rally was organised by Tiruchi Railway Division on 1st Dec at Trichy, in connection with World AIDS day to create awareness among people on HIV / AIDS. The rally commenced from the DRM's office and culminated at the Railway Hospital in Golden Rock. It was flagged off by the ADRM, Sri S.A. Abdul Rahman. Volunteers of Scouts and Guides of the railways and members of St. John Ambulance Brigade, took part in the cycle rally and distributed pamphlets to public.

Russian Railways Research Institute, BHEL and HAL-backed Indo Russian Aviation Ltd have expressed interest in developing a LNG turbine based locomotive for heavy and long haul operations. This is expected to bring down the operating cost of locomotives.

The Minister of Railways, Shri Pawan Kumar Bansal received cheques of dividend amounting to Rs. 372.78 crore for the year 2011-12 from six of the seven Public Sector Undertakings (PSUs) functioning under the Ministry of Railways, at New Delhi, on 10th Dec. At a programme in Rail Bhawan today, Managing Directors of 6 PSUs namely, CONCOR, IRFC, IRCON, RCIL, IRCTC and RVNL were personally present to separately handover the cheques to the Railway Minister.

Introduction of new Duronto trains

Train No	Dep	Arr	Days of Dep
22205	22.30 MAS	07.00 MDU	Mon, Wed
22206	22.40 MDU	07.10 MAS	Tue, Thu
22207	16.30 MAS	05.15 TVC	Tue, Fri
22208	21.30 TVC	10.15 MAS	Wed, Sat

It has been decided by the Ministry of Railways that concessions in Rajdhani, Shatabdi, Jan Shatabdi & Duronto trains will be given on base fare only w.e.f. 1st April'13. Concessions will not be granted on Catering charges, Reservation charges, Supplementary charges like super fast surcharge, enhanced reservation charges, taxes if any for the above trains.

The Ministry of Railways has issued a notification containing rules on prohibition of activities affecting cleanliness and hygiene in the Railway premises along with penalties for contravention of these rules. The Indian Railways (Penalties for activities affecting cleanliness at Railway premises) Rules 2012 have been notified in the Extraordinary Gazette of India, Part II, Section 3, Sub-section (i) vide Gazette Notification no. GSR 846(E) dt. 26.11.2012.

Under these notified rules, no person shall (i) throw or deposit litter in any occupied or unoccupied Railway premises or the carriage except in authorised places; (ii) cook, bathe, spit, urinate, defecate, feed animal or birds, repair or wash vehicles, wash utensils or clothes or any other objects or keep any type of storage in any Railway premises except in such facilities or conveniences specifically provided for any of these purposes; (iii) paste or put up any poster or write or draw anything or matter in any compartment or carriage of the Railway or any premises thereof, without any lawful authority; (iv) indulge in defacing Railway property.

DELHI METRO has completed 10 years on 10th Dec. Delhi Metro, which began operations with just 8 km on December 24, 2002, now has a network of 185 km and carries over 2 million passengers on an average day.

Exactly 48 hours after its construction began at 4.37 pm on November 29, a 10-storey building towered red and white above Mohali, and into the Limca Book of Records. The building has been the talk of the town these past few days and has attracted scores of people visibly amazed at the rapidity with which it rose up at Phase 1, Ind Area.

On 22nd Dec, China has successfully conducted test run of the world's longest 2,298-km long Beijing- Guangzhou high-speed railway, ahead of its formal launch. Running at an average speed of 300 km per hour, it only took 2-1/2 hours for the train to cover the 693 km distance from Beijing to Zhengzhou.

ICF- ATTENDANCE SHEET FOR THE YEAR 2013

Name: _____ CL= 8 Days , LAP = _____+15+15 Days, LHAP = _____+10+10 Days

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	P1				P8				S			S
2						S				P13	P16	
3		S	S								S	
4								S				
5					S							
6	S									S		
7				S			S					
8									S			S
9						S		P9	U11			
10		S	S								S	
11				U7				S				
12					S							
13	S									S		
14	P2			S			S			U14		
15	U3							P10	S			S
16						S			U12	U15		
17		S	S								S	
18								S				
19					S							
20	S									S		
21				S			S					
22									S			S
23						S						
24		S	S								S	
25								S				P17
26	P4				S							P18
27	S		P5							S		P19
28				S			S					P20
29			U6						S			P21
30						S						
31			S									P22

P1- New Year	U7- Telugu New Year Day	P13- Gandhi Jayanthi
P2- Pongal	P8- May Day	U14- Vijaya Dasami
U3- Thiruvalluvar Day	P9- Ramzan	U15- Bakrid
P4- Republic Day	P10- Independence Day	P16- Deepavali
P5- Holi	U11- Vinayaga Chaturthi	P17- Christmas
U6- Good Friday	U12- Onam	P18 to P22-Factory Holidays

P-PAID, U-UNPAID, For Outdoor Staff : Holidays 1,2,4,5,8,9,10,11,13,14,16,17 only, all are PH.