भारत सरकार GOVERNMENT OF INDIA

रेल मंत्रालय MINISTRY OF RAILWAYS

(रेलवे बोर्ड RAILWAY BOARD)

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सं. 2017/विकास प्रकोष्ठ/IGRI/6-Part(2)
No. 2017/Dev.Cell/ IGRI/6-Part(2)

नई दिल्ली, दिनांक : 19 .03.2021
New Delhi, Date

Pr.CAO/COFMOW,
Railway Offices Complex,
Tilak Bridge,
New Delhi -110002.

Sub: EDs committee report on locations of 121 OMRS systems (40 nos. in Phase-II & 81 nos. under Smart Yard's work) for installation over Indian Railways.

Ref: i) EDs Committee Report dated 03.03.2021 on 121 OMRS locations (copy enclosed).
ii) COFMOW's letter no. COFMOW/IR/M-622 dated 08.09.2020.
iii) Board's letter no. 2017/Dev.Cell/ IGRI/6 dated 16.10.2017.

Procurement of a total 121 OMRS systems (40 nos. in Phase-II & 81 nos. under Smart Yard's work) is under process at COFMOW for installation over Indian Railways.

The report of multi-disciplinary EDs committee consisting of EDME/Frt., PED/Bridges and ED/Coal of Railway Board regarding identification of site locations/sections for installation of 121 OMRS systems over Indian Railways, duly approved by Board (M/TRS) is enclosed herewith as **Annexure-I** for necessary action.

It is also pertinent to mention that vide Board's letter referred at (iii) above, Generic Site Requirements for installation of OMRS systems have already been issued to all Zonal Railways.

COFMOW is requested to expedite the procurement process of 121 OMRS systems for installation over IR's network.

DA/as above

(A.K.Chandra)
EDME(W&T)
Railway Board

Copy to:

- **General Managers/All Zonal Railways**-For kind information & n/a, please.
  (CR, ECR, ECoR, ER, NCR, NER, NFR, NR, NWR, SCR, SECR, SER, SR, SWR, WCR, WR)

Please issue.
19.03.2021

22/3/21

O/C

No.2017/Dev. Cell/IGRI/6 - Part(2)

Report of committee to decide location of 121 OMRS

A committee of the following officers has been nominated by Board to decide the location of 121 OMRS under procurement currently.

1. Mr. Manish Jain, EDME(Frt.)
2. Mr. A K Singhal, PED(Bridges)
3. Mr. A K Shamsi, ED(Coal)

1.0 Background:

- Traditionally, rolling stock examination is done at nominated points by trained staff. This includes rolling in examination and detailed examination in yards. Any en-route trouble is attended to on a case to case basis.
- With a view to use technology for rolling stock maintenance and to move towards predictive maintenance, IR started using Wheel Impact Load Detector (WILD) in 2007. Over the years, 17 WILDs & 3 Wheel Condition Monitoring (WCM) systems have been commissioned. over various routes (list at Annexure 1). These measure loads generated at wheel – rail interaction and generate alerts for unusual forces. It could lead to identifying wheel flats, suspension defects etc.
- Combined specification of OMRS (Online Monitoring of Rolling Stock) was developed encompassing the functionality of WILD as well as Acoustic Bearing Detector. Order for 25 OMRS systems has been placed and these are under installation / commissioning at identified locations (Annexure 2).
- Sanction for 121 more OMRS is available (40 as phase-II of OMRS and 81 as part of smart yard project). This committee is tasked with deciding the location for these 121 OMRS systems.
- Railway Board has issued letters regarding operation of 22.9 ton & 25 ton axle load wagons over IR (copies at Annexure 3 & 4). As per these, all such routes are to be covered by WILDs (which will be a part of 25 + 121 OMRS in addition to 17 already working).
- WILD / OMRS cater to all rolling stocks i.e. wagons, coaches, locomotives. However in view of higher axle loads, focus is mainly on wagons.
- 30 WILDs have been sanctioned focusing on coaches under mission RAFTAR and locations for these have already been decided (Annexure 5). Since these WILDs would cater to freight stock as well, the locations finalized under mission RAFTAR have been considered as locations where WILD is already available while finalizing the recommendations for 121 OMRS.

2.0 Discussion and decision points:

- All 25 ton axle load route must be covered.
- All significant feeder routes for Western and Easter DFCs must be covered. This is decided since DFCs itself would have OMRS installed on their routes. Thus the trains would pass through OMRS on IR section or on DFCs.
- All 22.9 ton axle load routes (CC+8+2 / CC+6+2) must be covered.
- Location should generally be about 50 km before designated examination points as far

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as feasible so that alerts are available to examination gang when the stock reaches them.

- Distance between 2 systems should be about 400-500 km to make it optimum. However for busier routes having high density of loaded freight traffic and for junctions it could reduce to about 150-200 km considering various directions of train running.
- Location chosen so that one system can cater to multiple directions at junctions.

3.0 Recommendation:

- Based on the above, the recommended locations have been listed at Annexure 6.
- These have been chosen based upon loaded direction movement, traffic volumes etc.
- These recommendations are based on current rail network and the expected freight train movements on it. In future, for new tracks and for new freight train routes, more equipment may be needed, which could be taken up at appropriate time.
- Among the recommended locations, priority numbers have also been indicated in the last column. The purpose of doing this is to have OMRS installed over IR in order of priority.
- The locations recommended are on a global basis and based upon local suitability cum feasibility, Zonal Railways would choose exact location for installation in the vicinity of the recommended station.

The recommendations are submitted for acceptance of the competent authority.

03/3/21 — EDME(Fr)

3/3/21 — PED(Bridges)

02/3/21 — ED(Coal)

ANNEXURE 6

832891/2021/MECHANICAL(WAGON) (1)

PROPOSED LOCATIONS FOR OMRS

S. No.	Rly.	Site Location	Direction		Next Examination Point	Exam Rly	Remarks	ROUTE TYPE	DFCC FEEDER ROUTE	Priority of Location
			From	To						
1	CR	YT (YAVAT)	DD	PA	PA	CR	Covers freight trains coming from HYD,GTL to PA,Kalyan, MMR	CC+8+2 Routes		90
2		GRWD (GHORAWADI)	LNL	PA	PA		Covers from Mumbai to PA, SBC, HYB MAS			91
3		JL(JALGOAN)	MMR	BSL	BSL		Covers freight trains coming from Mumbai, PA to BSL, ET, NGP			88
4		WGA (Wagheda)	KNW	BSL	BSL		Covers freight trains coming from ET, NGP To BSL, Mumbai, PA			89
5		WSB (Washinde) Single Line	KWV	DD	DD / KWV		Covers freight trains coming from Mumbai, PA to KWV Solapur, Latur in both direction			92
6		ANQ (Ahmed Nagar Single Line)	MMR	DD	DD/MMR		Covers freight trains coming from Ahmed Nagar to DD, WADI in both direction			93
7		NGTN (NAGOTHANE)	PANVEL	Kokan Rly	ROHA		Covers freight trains coming from Panvel to Kokan railway		DFCC ROUTE	18
1	ER	GHLE(GADADHARPUR)	WARDHMAN	Rampur Halt	PAKUR	ER	Covers freight trains coming from HWH, Bundel to Pakur , JMP, MLDT, NJP	CC+8+2 Routes	DFCC ROUTE	19
2		GHLE(GADADHARPUR)	Rampur Halt	UDL/BWN	UDL/BWN		Covers freight trains coming from Santhiya , JMP, To UDL		DFCC ROUTE	21
3		PDX (Peradangra)	RNA	NH	NH		Covers freight trains coming from LDL & GEDE to NH		DFCC ROUTE	21
4		TOP (TAPASI)	SITA RAM PUR - UDL	UDL	UDL		Covers freight trains coming from Sitarampur To UDL		DFCC ROUTE	22
1	ECR	PEH (PATHER DIH)	MURI	DHN	DHN	ECR	Covers freight trains coming from S E Railway Muri , Chandrapur, To DHN, ASN, JMP	CC+8+2 Routes	DFCC ROUTE	23
2		ZNA (ZAMANIA)	PNBE	DDU	DDU		Covers freight trains coming from BNBE, HWH, GHY To MGS, ALD, BSB, LKO			94
3		HJP (HAJIPUR)	SONPUR	BARAUNI	NRPA / BJU		Covers freight trains coming from CPR, SEE To BJU NRPA SPJ of ECR and NFR Side			95
4		KGG (Khagariya)	KIR	HJP	BJU		Covers freight trains coming from NFR Side to CPR, BSB, GKP			96
5		PDMA (PADMA)	BRKA	KQR	KQR		Covers loaded freight trains coming from Hazaribad coal mines to JSME main Lines			58
6		NUQ (NAGAR UTARI)	CHAUPAN	BRWD	BRWD		Covers freight trains coming from Chopan, OBRA, To GHQ BRWD, BRKA NRPA & SER Side			59
7		CHRK (CHURKI)	SKTN	SGRL	SGRL		Covers freight trains coming from Shakti nagar to SGRL, NKJ			60
8		PTRU (PATARATU)	BRWD	BRKA	BRKA		Covers freight trains coming from RAY, KLRE Coal sidings to BRKA, Ranchi, Chandrapura, GMO Side		DFCC ROUTE	24

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1	ECoR	KTV - PDT (KOTTAVALASA - Pendurti))	VZM	VSKP	VSKP	ECoR	Covers freight trains coming from VZM, CTC, Paradeep To VSKP , Vishakha pattanam steel plant	25 T Axle Load Routes		1
2		VBL (BOBBILI)	RAYAGADA	VZM	VZM		Covers freight trains coming from VZM, CTC, Paradeep, VSKP To Raygada to Jharsuguda line			2
3		KUU (KUHURI)	VSKP	BHADRAK	KUR		Covers freight trains coming from Vishakhapattanam to HWH line	CC+8 T		43
4		BNHR (BANBIHARI GWALIPUR)	CTC	PRDP	PRDP		Covers freight trains of VSKP - CTC- Paradeep KGP CTC- Paradeep line	25 T		3
5		HND (HINBOL ROAD)	TLHD (Talcher Road)	NRG - BBS	KUR/CTC		Covers freight trains of Jharsuguda- raygada - CTC- Bhadrak/ VSKP/Paradeep line	CC+8 T		44
6		HND (HINBOL ROAD)	PRDP/CTC/BHC	TLHD (Talcher Road)	TLHD		Trains coming from Paradeep, Bhadrak,CTC			45
7		SSN(SASON)	JSG (Jharasuguda)	SBP Sambhalpur)	SBP		Trains coming from JSG			46
8		ATS(Attabira)	TIG(Titlagarh)	SBP Sambhalpur)	SBP		Trains coming from Titlagarh			47
9		BJPRA(Bajipara)	PRDP(Paradeep)	JKPR(Jakhpura jn.)	JKPR/CTC		Trains coming from Paradeep, Dhanmandal,Bhadrak,CTC	25 T		4
1	NR	BTRA(BANTHARA)	LKO	BE	BE	NR	Covers freight trains of UMB/ GZB- MB - LKO main line	CC+8+2 Routes	DFCC ROUTE	25
2		JBD (JAFARABAD)	JAUNPUR	DDU	DDU	ECR	Covers freight trains of LKO-FD- DDU & LKO-Sultan pur- DDU main line		DFCC ROUTE	26
3		PRF(PARSIPUR)	JANGHAI	DDU	DDU		Covers freight trains of LKO-Raibareli - DDU main line		DFCC ROUTE	27
4		LHM (LehraMohabbat)	RJP	BTI	BTI	NR	Covers freight trains of UMB-RJP- BTI - SGNR line		DFCC ROUTE	28
5		MOT (MALOUT)	SGNR	BTI	BTI		Covers freight trains of SGNR-BTI -RJP -UMB line		DFCC ROUTE	29
6		KTKL (KOTALI KALAN)	JAKHAL	BTI	BTI		Covers freight trains of DLI Jakhal-BTI -RJP -UMB line		DFCC ROUTE	30
7		JUD (Jagadhari)	MB	UMB	UMB		Covers freight trains coming from MB , DLI , Aligarh side			97

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1	NCR	CHL (CHOLA)	ALJN	GZB	DER		Covers freight trains of TDL-Aligarh-GZB Up line	CC+8+2 Routes	DFCC ROUTE	31
2		BINR (Brij Nagar)	AWR	MJT	BAD		Covers freight trains of TKD- MTJ-AGC DN line			98
3		IK (Ikran)	AH	MTJ	BAD		Covers freight trains of AGC- MTJ TKD UP line			99
4		MLS (MLASA)	JHS	CNB	GMC		Covers freight trains of JHS- GMC-CNB line		DFCC ROUTE	32
5		TKA (TEHARKA)	MKP (MANIK PUR)	JHS	JHS		Covers freight trains of ALD- Manikpur-JHS line			100
1	NER	BCU (Bisheshwar)	GKP	LJN	GD		Covers freight trains of NFR- ECR Indara - Dhatani - GKP - LJN	CC+8+2 Routes		101
1	NFR	KDPR (KUMEDPUR)	MLDT	KIR / BOE	KIR / BOE	NFR	Covers freight trains coming from ER, ECR & SER	CC+8+2 Routes		102
2		HJI (HOJAI)	Alipurdwar/GHY	LMG	LMG		Covers freight trains coming from KIR, MLDT , NJP	CC+6+2 Routes		118
3		JID(Jagi Rd)	RNY	NBQ	NBQ		Covers freight trains coming from RNY side			119
4		BTZ (BORHOT)	FKG (Furcating Jn.)	NTSK	NTSK		Covers freight trains coming from Lumding (LMG), FKG (Single Line)			120
5		LHL (LAHOL)	DBRG	NTSK	NTSK		Covers freight trains coming from SLGR, DBRG (Single Line)			121
1	NWR	JTY (JETHI)	ADI	AJMER	ABR	NWR	Covers freight trains coming from WR, ADI division side	CC+8+2 Routes		103
2		RNW (Renwal)	RGS	FL	FL		Covers freight trains coming from Ringas side			104
3		BDYK (Bindayaka)	JP	FL	FL		Covers freight trains coming from Jaipur side			105
4		THMR (THATHANA MITHRI)	MTD	FL	FL		Covers freight trains coming from Merata road side			106
1	SR	PON (PONNER)	GUDDUR	TBM	TNPM	SR	Covers freight trains coming from Gudur side	CC+8+2 Routes		107
2		CTM(Kattangulathur)	TBM	GUDDUR	TNPM		Covers freight trains coming from Tamberum side			108
3		MAKM (MARARI KULAM)	TVC	KYJ - ERS	IPN		Covers freight trains coming from Trivendrum side			109
4		KUC (KARUKUTTI)	ERS	TCR	TCR		Covers freight trains coming from IPN, Ernakulam side			110
5		IJK (INNJALAKUD)	TCR	ERS	ERS		Covers freight trains coming from Palghat side			111
6		CV (CAUVERV)	ED	SA	SA		Covers freight trains coming from coyembatur side			112
7		KLGN (KALANGANI)	KRR (KARRUR Jn)	SA	SA		Covers freight trains coming from Trichurapalli side single line			113
8		ETP (ETTAPUR ROAD)	VRI	SA	SA		Covers freight trains coming from Chennai egmore, Tiruchi sideside			114
9		WJ (WALAJABAD)	CGL (CHENGAPLATTU)	AJJ	AJJ		Covers freight trains coming from CHENGAPLATTU side			115
10		KGQ (KASARAGOD)	SRR	MAQ	MAQ		Covers freight trains coming from Shoranur Side			116
11		TIR (TIRUR)	MAQ	SRR	SRR		Covers freight trains coming from KR & Manglore			117

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1	SCR	VNM (Ontimitta)	SBC	GTL/GY	GTL/GY	SCR	Covers freight trains coming from Banglore	CC+8+2 Routes		76
2		TKDN (T. SAKIBANA)	BELLARI	GTL	GTL		Covers freight trains coming from Bellari			77
3		NRR (NAGARUR)	WADI	GTL/GY	GTL/GY		Covers freight trains coming from WADI, RC			78
4		LMD (Linganenicoddi) - PDL (Pendekallu)	GUNTUR	GTL/GY	GTL/GY		Covers freight trains coming from Guntur			79
5		PAVP (Pedda-avatapalle)	VSKP	BZA	BZA		Covers freight trains coming from VSKP Side			80
6		TEL (Tenali Jn.)	MAS	BZA	BZA		Covers freight trains coming from Tenali Side			81
7		NLPD (Nallapadu)	GUNTUR	BZA	BZA		Covers freight trains coming from Guntur			82
8		GT (Ghatkesar)	GUNTUR/ Kajipet	SC	SC		Covers freight trains coming from Guntur / kajipet			83
9		AKP (Anakapalli)	BZA	SLO / VSKP	VSKP		Covers freight trains coming from BZA			84
10		SKZR (Sirpur Kagajnagar)	BPQ	KZJ	BPQ		Covers freight trains coming from NGP to MAS, SC			85
11		GGD (GULLAGUDA)	VKB	SNF	SNF		Covers freight trains coming from WADI, RC			86
12		JET (JAMESSTREET)	SC, MUE,DHNE, HYD	SNF	SNF		Covers freight trains coming from LGD, MUE, DHNE, HYD			87
1	SER	TATI (TATI)	HTE (HATIA)	BNDM	BNDM	SER	Covers freight trains coming from RNC, HTE Single Line	25T Routes		5
2		CIQ (CHAMPAJHARAN)	BIMALGARG	BNDM	BNDM		Covers freight trains coming from KIRIBURU, BARSUAN Sidings single line	25 T Axle Load Routes		6
3		CBSA (CHAIBASA)	PADAPAHAR	CKP, ADTP	CKP, ADTP		Covers freight trains coming from ECoR, BANSPANI,			7
4		KND (Kandra)	ADA	TATA, SINI, CKP	TATA, SINI, CKP		Covers freight trains coming from ADA, RNC		DFCC ROUTE	8
5		PNPL (Panppali PH)	BNDM	JSG	JSG		Covers freight trains coming from BNDM			9
6		BRMD (Biramdih)	CHANDIL	PURLLIA, ADA	PURLLIA, ADA		Covers freight trains coming from BNDM, TATA		DFCC ROUTE	10
7		PNW (PUNDAG)	MURI	BKSC	BKSC		Covers freight trains coming from RNC			11
8		GTS (Ghatsila)	NMP	TATA	TATA		Covers freight trains coming from KGP, HWH			12
9		JGM (Jhargram)	TATA	KGP	KGP		Covers freight trains coming from Midna Pur	CC+8+2 Routes		39
10		BLDA (Belda)	KGP	JALESWAR	JALESWAR		Covers freight trains coming from KGP	25 T Axle Load		13
11		PKU (Panskura)	HWH	KGP	KGP		Covers freight trains coming from HWH			14
12		TMZ (Tamluk)	PKU	HLZ	HLZ		Covers freight trains coming from PKU	CC+8+2 Routes		40
13		MXW (Mahadevasal PH)	BNDM	CKP	CKP		Covers freight trains coming from BNDM	25 T Axle Load		15
14		CBSA (Chaibasa)	CBSA	PDPH	PDPH		Covers freight trains coming from CBSA			41
15		TLE(TALGORIA)	BJE	BKSC	BKSC		Covers freight trains coming from BHOJUDIH	CC+8 T	DFCC ROUTE	33
16		RKI (Ramkanali Jn.)	ASN	BJE	BJE		Covers freight trains coming from E R, ECR Side	25 T	DFCC ROUTE	16
17		TKB (Tupkadih)	BKSC	GMO	GMO		Covers freight trains coming from BKSC	CC+8+2 Routes	DFCC ROUTE	34
18		MHQ (Mahuda)	GMO	BKSC	BKSC		Covers freight trains coming from GMO			42
19		SLB (Salboni)	ADA	KGP	KGP		Covers freight trains coming from ADA	25 T Axle Load Routes		17

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1	SECR	BTC (Balaghat Jn.)	BTC	GONDIA	GONDIA	SECR	Covers freight trains coming from BTC	CC+8+2 Routes		48
2		SNV (SONDAD)	NAB (NAGBHAR)	GONDIA	GONDIA		Covers freight trains coming from NAB to GONDIA			49
3		LAE (LAKHOLI)	TITLAGARH	R	BIA		Covers freight trains coming from TITLAGARH	CC+8 T Axle Load Routes		50
4		HN (HATHBANDH)	BSP	R	BIA		Covers freight trains coming from BSP			51
5		KTGO (KOTGAONPH	NAB (NAGBHAR)	NGP	NGP		Covers freight trains coming from NAB to NGP			52
6		SDL (SHAHDOL)	KTE	APR	APR		Covers freight trains coming from KTE side	CC+8+2 Routes		53
7		DJRI (BIJURI)	ABKP	APR	APR		Covers freight trains coming from Amlaikapur side			54
8		SRBA (SARAGBUNDIA)	SRBA	CPH	CPH		Covers freight trains coming from SRBA side	CC+8 T Axle Load Routes		55
9		LAE(Lokholi)	TIG(Titlagarh)	R(Raipur)	RRaipur		Covers freight trains coming from Titlagarh side			56
10		Jaithari(JTI)	BSP	KTE	APR		Covers freight trains coming from BSP side	CC+8+2 Routes		57
1	SWR	Torangulli(TNGL)/ KDN	BAY	KDN	HPT	SWR	Covers freight trains coming from Bellari side	CC+8+2 Routes		71
2		MGD (Mugad)	LD	UBL	UBL		Covers freight trains coming from LONDA side			72
3		RNN (RAIANKUNT)	DMM	SDC	YPR/SBC		Covers freight trains coming from Dharmavaram side			73
4		MZV (MARALAHALLI)	JTJ	SBC	SBC/SGT/YPR		Covers freight trains coming from JTJ side			74
5		MYK (MAYAKONDA)	SBC - RRB	JRU - HRR	HRR		Covers freight trains coming from SDC side			75
1	WR	GDL (GONDAL)	JLR (JETALSAR)	Rajkot	Rajkot	WR	Covers freight trains coming from PIPAV Porbander side	CC+8+2 Routes		64
2		WSI (WASHANJALIA Jn.)	JLR (JETALSAR)	PBR	PBR		Covers freight trains coming from Rajkot side		DFCC ROUTE	35
3		BCOB (BACHAU)	ADI	GIM	GIM		Covers freight trains coming from ADI side		DFCC ROUTE	36
4		HM (HATMATIA)	RJT	HAPA	HAPA		Covers freight trains coming from Rajkot side			65
5		HM (HATMATIA)	HAPA	RJT	RJT		Covers freight trains coming from HAPA side			66
6		BRL (BARWALA ROAD)	WKR (WANKANER)	MALX (MALIYA MIYANA)	MALX		Covers freight trains coming from WKR side		DFCC ROUTE	37
7		ND (NADIAD Jn)	BRC	ADI	SBI		Covers freight trains coming from BRC side			67
8		MSH (MEHSANA)	PLU	ADI - SBI	SBI		Covers freight trains coming from AJMER side		DFCC ROUTE	38
9		BAJ (BHALEJ)	GDA	ANND (ANAND) - BRC	KRCY		Covers freight trains coming from GDA side			68
10		NMH (NIMACH)	RTM	CHANDERIYA - KTT	SMP		Covers freight trains coming from RTM side			69
11		CNA(CHANDERIYA)	KTT	CHANDERIYA - RTM	SMP		Covers freight trains coming from KOTA side			70
1	WCR	KYX (Karhiya-Bhadeli)	DMO (DAMOH)	KMZ	NKJ	WCR	Covers freight trains coming from DMO Third line side	CC+8+2 Routes		61
2		TZR (TURKI ROAD)	REWA	STA	STA		Covers freight trains coming from REWA side			62
3		ATH (ANTAH)	GUNA	KOTA	KOTA		Covers freight trains coming from GUNA side			63

TOTAL=121 PROPOSED LOCATIONS

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