1. Training/Human Resource Development (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019- 20			OUTCOMES 2019-20		
2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
125	1.Conductin g trainings, seminars, workshops, etc.	1.1. No. of trainings / workshops / seminars held.	3,800	1. Capacity building of Railways Staff &related stakeholders	1.1. No. of persons trained.	3,80,000

2.Railway Research (CS)

FINANCIAL OUTLAY (Rs in Cr)		OUTCOMES 2019-20				
2019-20	Output	Indicato r(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019- 20
	1.i ncreased R&D activity at RDSO	dedicated Test Track for	Knowledge sharing,	1.Assimilation	1.1 Finalizing a detailed design	*
		validation and testing of new	customization to suit	of new	document incorporating track	
		Design Rolling Stock, track Components, OHE components	operational conditions	gradation of	alignment, bridge spans, line	
00.1		and panto-interface with OHE, signaling systems	and creating a detailed plan for implementation		side monitoring systems, OHE design etc. for execution under another ongoing project	
90.1		etc.	-			

FINANCI AL OUTLAY (Rs in Cr)		TS 2019-20	OUTCOMES 2019-20		
	1.2 Procurement of	Procurement of Instrumented	1.2 Developing capability for	*	
	Instrumented Measuring	Wheel sets for Coaching	mapping rail-wheel forces for		
	Wheel and wagon	Stock, Wagon Stock	different types of rolling stock		
	design software		at different speeds for		
			validation of design and		
			assessing speed potential of		
			rolling stock on different		
			categories of track		
	1.3 Consultancy on	Verification of the track stress	1.3 Comparing the stress	*	
	Tract Stress Calculation	calculation methods and the	calculation methodology		
	methodology	factors involved	adopted by Indian Railways		
			with Internationally accepted		
			norms being followed on		
			railroads worldwide		
	1.4 New Research	Upgradation of existing	1.4 Assimilation of new	*	
	activities for RDSO:	laboratories and induction of	technologies beneficial for		
	Research Projects for	additional testing facilities	Railway Research & Safety.		
	Asset Health	give pace to the Research			
	Monitoring Process	activities at RDSO which			
	Automation, speed	ultimate benefits the Railway			
	upgradation	for safety and safe travelling.			
	technologies, heavy	g.		195	

haul, Predictive maintenance technolo for all categories of railway asset and infrastructure and all short term research projects of RDSO				
1.5 Modernization of facilities at RDSO	R&D Creation of additional f equipment etc. at RDSO various Research/Simul Validation/Testing/ Eva technology and develop including that for newly LTRR (SRESTHA) and research projects of RD	O for taking up ation/ Trials/ cluation of ment project created wing of l all long term	1.5 Provide world class Railway Research Facilities at par with any world class Railway R&D organization .	*

3. New Lines (Construction)

4. Gauge

5.Line Doubling (CS)

FINANCIA L OUTLAY (Rs. In Cr.)		OUTPUTS 2019	0-20		OUTCOMES 2019-20	T. (2010 20
2019- 20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
47997. 91*	1. Greater speed of construction of new lines, gauge conversion and Line doubling	1.1. New Lines constructed (km). 1.2. Total length of Gauge Conversion (km)works 1.3. Total length of Line Doubling (km) completed.	800 800 4000	Greater access to unconnected routes especially LWE districts, Strategically important districts, Tribal areas, etc. Greater safety and throughput as well as more freight services on congested routes	1.1. Locations connected to Railways due to NL construction (assuming standard last mile distanc 2.1.Increase in passenger throughput (PKM) on congested routes 2.2. Increase in freight throughput (NTKM) on congested routes	0.05%

^{*} The Budgetary allocation for this item is Rs. 10155 crore; rest is through EBR

.6. Electrification Projects (CS)

		9 \				
FINANCI						
\mathbf{AL}	0	UTPUTS 2019-20			OUTCOMES 2019-20	
OUTLAY						
(Rs. In						
Cr.)						
2019-	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
20						

^{*} Targets not amenable for this indicator

	1.	1.1. Additional	7000	1. Reduction in	1.1. Percentag	2% reduction in diesel
	Electrificati on of	commissioni ng of rail routes on electric		dependence on imported fuel i.e.	e reduction in diesel oil	consumption.
50.50 2 5*	Railway	traction (Km.)		Diesel oil	consumption for	
6960.26*	Network				traction purposes in Indian	
					Railways (%)	

^{*} The Budgetary allocation for this item is Rs. 1 crore; rest is through EBR.

7.Signaling & Telecom (CS)

FINANCIA L OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20		
2019- 20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019- 20
1750.0	1. Signaling Replacement Works	1.1. No. of stations where Modern Signaling works undertaken	300	2. Increased safety at stations where Signaling Replacement works are done	2.1. Number of unsafe working incidents arising out of signal failures	0*
0	2.Interlocking of Level Crossing gates	2.1. No. of LC gates where interlocking works undertaken	250	3. Increased safety at gates where Interlocking of Level crossings Gates are done.	3.1. Number of accidents at gates where works of Level Crossing Gates Interlocking are done.	

^{*} Railway has zero tolerance for accidents and unsafe working. Hence, target for the same is kept at zero

8. Track Renewals (CS)

FINANCIAL OUTLAY (Rs. In Cr.)		OUTPUTS 2019-20			OUTCOMES	2019-20
2019- 20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20

	Completing all sanctioned projects within 2 to 3 years.
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9.Road over/Under bridges (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20		
2019-20	Output	Indicator(s)	Target 2019- 20	Outcome	Indicator(s)	Target 2019-20
6050	1. ROB construction	1.1 No. of ROB/RUBs constructed	1200	1. Increased Safety	1.1. Percentage reduction in number of accidents on LCs. (%)	Railway has zero tolerance for accidents and unsafe working. Hence, target for the same is kept at zero.

Road Safety Works -Level Crossings

10.Rolling Stock (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUT S 2019-20			OUTCOMES 2019-20		
2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	1. Acquisition of rolling stock of each type	1.1. No. of Electric Locomotives operationalized	725*	Greater throughput in freight and passenger services.	1. Increase in Passenger throughput (PKM	0.05%
		1.2. No. of LHB coaches operationalized	4941*			

6114.82		1.3. No. of ICF coaches operationalized		2. Increase in freight	3.3%
	1	1.4 No. of track machines operationalized	65*	throughput (NTKM)	

^{*} Coach production programme is under review, targets may get revised accordingly.

11. Traffic Facilities – Yard Remodeling & Others (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20			
2019-20			Target 2019- 20	Outcome	Indicator(s)	Target 2019-20	
1210.03	1. Greater coverage of the works	1.1. No. of works commissioned.	98 Works	Greater passenger and freight throughput along routes where yard remodelled	1.1. Increase in passenger throughput (PKM) on congested routes	0.05%	
					1.2. Increase in freight throughput (NTKM) on congested routes	3.3%	

12. Workshop including Production Units (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	ou	TPUTS 2019-20		OUTCOMES 2019-20			
2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20	
2550	1. Expedited commissioning of projects.	1.1. No. of Projects commissio ned	75	1. Stock-wise outturn in workshops/PUs	1.1. Increase in outturn in workshop/ PUs in current year versus previous year.	For PUs, % improvement over last year for- Coaches -15.3% Locomotives 4.3% For rolling stock workshops- 5% increase in outturn of wagons and coaches is targeted in 2019-20 wrt the actuals of 2018-19.	

13. Machinery & Plant (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUT S 2019-20			OUTCOMES 2019-20		
2019-20	Output	Indicator (s)	Target 2019- 20	Outcome	Indicator(s)	Target 2019-20
669.58	Replacement of new machinery and plant installations	1.1. Total value of machinery and plant on replaceme nt basis. 1.1. Total value of additional purchases done.	321 Cr 348 Cr	Timely and efficient maintenance of Railway assets in workshops and PUs	Increase in outturn in workshop/ PUs in current year versus previous year.	For PUs, % improvement over last year for- Coaches-15.3% Locomotives-4.3% For rolling stock workshops-5% increase in outturn of wagons and coaches is targeted in 2019-20 w.r.t. the actual of 2018-19.

14.Passenger Amenities (CS)

FINANCIAL OUTLAY (Rs. In Cr.)		OUTPUTS 2019-	20	OUTCOMES 2019-20			
2019- 20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20	
3422.57	1. Building better passenger amenities	1.1. Upgradation of stations	68	Greater passenger satisfaction Index	1.1. Passenger satisfaction index	Maintaining Customer Satisfaction Index at 80%.	

15.Metropolitan Transportation Projects (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20			
2019-20	2019-20 Output Indicat		Target 2019-20	Outcome Indicator(s) Tar		Target 2019-20	
1600	1. Greater access of sub- urban rail	1.1. Length of metropolitan new lines works commissioned (km.)	63.22 Kms	Increased passenger throughput due to these projects	1.1. Total suburban PKMs achieved	156463	

16.Bridge Works (CS)

FINANCIAL OUTLAY (Rs. In Cr.)		OUTPUTS 2019-20	OUTCOMES 2019-20			
2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
745	1. Increased speed of Bridge works	1.1. No. of bridge works undertaken.	1000	1. Improved average speeds	1.1. Number of speed restrictions removed annually.	121