

Sector 1 Environment

Component 1.1 Clean, pollution free surroundings (air, water, noise, land)

Result 1	Adequate storm water drainage system is provided in the identified project areas						
Indicator 1.1	Map of coverage of storm water drainage	Areas covered	Areas not covered				
			R-1-- Gopuram Street				
		R-2-- North link to Koneru					
		R-3--South link to Koneru					
		R-4--Koneru West					
		R-5--Koneru North					
		R-6--Koneru East Road					
		R-7--Koneru West Road					
		R-8--G.Car Street					
		R-9--Railway station road					
		R-9A--Connecting Station Road to Seshachalam Road.					
		R-9B--T.P.Street					
		R-9C--Part of Railway Station Road					
		R-9D--Part of P.K.Street					
		R-10--Seshachalam Road					
		R-10A--Part of P.K.Street					
		R-10B--Part of P.K.Street					
		R-10C--Bandla Street					
		R-10D--Nehru Street					
		R-10E--SeshachalamRoad to Bandla Street connection					
		R-10F--Seshachalam Road to P.K.Street connection					
		R-11--Uttara Mada Street part					
		R-12--Uttara Mada Street					
		R-12A--Uttara Mada Street to gandhi street connection					
		R-13--Part of Gandhi Street					
		R-14--Part of Gandhi Street					
		R-15--Beri Street					
		R-16--Part of G.S.Mada Street					
		R-17--Part of G.S.Mada Street					
		R-19A--Netaji Road					
		R-21--Gandhi statue to Ambedkar Statue					
		R-22--Ambedkar Statue to Purna Kumbham Statue					
		R-23--P.G.R. Theatre Road					
Indicator 1.2	Status of drains	Location/ stretch ID	completely covered	uncovered	partly covered	Covered with hoes/gaps in between	Broken drains

R-9A--Connecting Station Road to Seshachalam Road.									
R-9B--T.P. Street									
R-9C--Part of Railway Station Road									
R-9D--Part of P.K.Street									
R-10--Seshachalam Road									
R-10A--Part of P.K.Street									
R-10B--Part of P.K.Street									
R-10C--Bandla Street									
R-10D--Nehru Street									
R-10E--SeshachalamRoad to Bandla Street connection									
R-10F--Seshachalam Road to P.K.Street connection									
R-11--Uttara Mada Street part									
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R-16--Part of G.S.Mada Street									
R-17--Part of G.S.Mada Street									
R-19A--Netaji Road									
R-21--Gandhi statue to Ambedkar Statue									
R-22--Ambedkar Statue to Purna Kumbham Statue									
R-23--P.G.R. Theatre Road									

source: eco-city development plan for the core area of tirupati town-mar-2005 supported by primary survey -may 2005-

Result 2	Adequate sewerage system is provided in the identified project areas		
Indicator 2.1	Coverage of sewerage (use map)	Areas covered	Areas not covered
		R-1-- Gopuram Street	
		R-2-- North link to Koneru	
		R-3--South link to Koneru	
		R-4--Koneru West	
		R-5--Koneru North	
		R-5A--Link from G.Car street to Koneru West Road	
		R-6--Koneru East Road	
		R-7--Koneru West Road	
		R-8--G.Car Street	
		R-8A--link from G.Car Street and Koneru west road.	
		R-9--Railway station road	

R-9A--Connecting Station Road to Seshachalam Road.
R-9B--T.P. Street
R-9C--Part of Railway Station Road
R-9D--Part of P.K.Street
R-10--Seshachalam Road
R-10A--Part of P.K.Street
R-10B--Part of P.K.Street
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R-14--Part of Gandhi Street
R-15--Beri Street
R-16--Part of G.S.Mada Street
R-17--Part of G.S.Mada Street
R-19A--Netaji Road
R-21--Gandhi statue to Ambedkar Statue
R-22--Ambedkar Statue to Purna Kumbham Statue
R-23--P.G.R. Theatre Road

Indicator 2.2	Status of sewers	Location/ stretch ID+C4	Sewers existing and completely connected to sewers	Sewer existing but partly connected to sewers	Sewers existing but not at all connected	Any other condition (specify)
		project area	the project area has under ground sewerage system -no survey			

Indicator 2.3	Flow condition	Location/ stretch ID	Smooth flowing	Flowing, with garbage/solid deposits	Stagnant	stagnant and badly smelling	overflowing	Dry with solid deposits	Dry without solid deposits	
		project area	the project area has under sewerage system -no survey.							
		source: primary survey and information from municipality.								

Result 3
Air quality in the project areas is improved

Indicator 3.1	Noise levels	Location/ stretch ID	Levels		Classification			
			Day time (dB Leq)	Night time (dB Leq)	Unbearable (above 100 dB)	extremely high(70-100dB)	moderate(60-70dB)	Low (below 60 dB)
			Sri Govindarajaswami Temple (may-2005)	63.5	58.1			

Result 6	Environmentally and economically sustainable MSW management systems are established in the identified project areas							
Indicator 5.1	Availability of infrastructure for MSW Management	Location/ Stretch ID	Infrastructure availability for MSW Management				Others (specify)	
			Segregation	Door to door collection	Storage	Transportation		
			there is no system of segregation of MSW in the project area	There is no door to door collection system as yet		modes	no.of trips per day	
		R-1-- Gopuram Street			dust bin	tractor	varies from area to area ,not regular	
		R-2-- North link to Koneru			no bins -			
		R-3--South link to Koneru			no bins -			
		R-4--Koneru West			dust bin			
		R-5--Koneru North			no bins -			
		R-6A--Link from G.Car street to Koneru West Road			dust bin			
		R-6--Koneru East Road			no bins -			
		R-7--Koneru West Road			dust bin			
		R-8--G.Car Street			dust bin			
		R-8A--link from G.Car Street and Koneru west road.			dust bin			
		R-9--Railway station road			dust bin			
		R-9A--Connecting Station Road to Seshachalam Road.			no bins -			
		R-9B--T.P.Street			dust bin			
		R-9C--Part of Railway Station Road			no bins -			
		R-9D--Part of P.K.Street			no bins -			
		R-10--Seshachalam Road			dust bin			
		R-10A--Part of P.K.Street			dust bin			
		R-10B--Part of P.K.Street			dust bin			
		R-10C--Bandla Street			dust bin			
		R-10D--Nehru Street			dust bin			
		R-10E--SeshachalamRoad to Bandla Street connection			no bins -			
		R-10F--Seshachalam Road to P.K.Street connection			dust bin			
		R-11--Uttara Mada Street part			dust bin			
		R-12--Uttara Mada Street			dust bin			
		R-12A--Uttara Mada Street to gandhi street connection			no bins -			
		R-13--Part of Gandhi Street			dust bin			
		R-14--Part of Gandhi Street			no bins -			
		R-15--Beri Street			dust bin			
		R-16--Part of G.S.Mada Street			dust bin			
		R-17--Part of G.S.Mada Street			dust bin			
		R-19A--Netaji Road			dust bin			

R-21--Gandhi statue to Ambedkar Statue			no bins -			
R-22--Ambedkar Statue to Purna Kumbham Statue			dust bin			
R-23--P.G.R. Theatre Road			dust bin			

source:primary survey May-2005 and Ecocty Development Plan of The Core Area of TirupatiTown -March-2005

Indicator 5.2	Location of %No Litter Zones+	Location/ Stretch ID			Description
		NIL			

Indicator 5.3	Funding means of MSW management - municipal funds, grants, Public private partnership etc.	Capital investment		funds available	
		Till Dec 2004	From Jan 2005	till Dec-2004	from jan-2005
		The average amount spent is Rs 574/- for one metric tonne per day	source DPR for MSWM Tirupati town-may-2004		

Indicator 5.4	Status if garbage is dumped in the open areas or on the road side	Location/ Stretch ID	Stretch is clean with no garbage dumps	Garbage is dumped on road side	there is littering seen in all the streches ,dustbins provided are not being used because in appropriate location,except for gopuram street .

source:primary survey May-2005

Indicator 5.5	Access to stray dogs, pigs, cows etc. to garbage storage and compost sites	Location	stretch is clean	garbage is dumped on road side	Description	it is observed that there is access to animals to garbage disposal bins as they are not cleaned regularly ,and also the garbage is not disposed into the bin but around it

source:primary survey May-2005

Indicator 5.6	Recycling and reuse of materials from different streams of garbage	Location of facility	Description facility	quantity recycled				
				biodegradable	non biodegradable	Toxic	Soiled	Construction debris
		no recycling done as yet						

Result 6	Adequate community sanitation facilities are provided for the pilgrims in the identified project areas										
Indicator 6.1	No. and status of public toilets existing	Location	Gents toilet or ladies toilet or for both								
				maintained but needs improvement	Maintained properly	not maintained	Location not appropriate	Users			
								Avg. no. of users per day	User fee		
		R-9B--(from Taxi Stand to Reservation Counter)	toilet for gents and ladies						NIL		
		R-4B--(from the road leading to Bhimas Deluxe, Western side of Koneru to Cooperative Bank)	gents toilet						NIL		
		R-6A--(from other side of Reservation Counter to T.T.D Bus Stand)	gents toilet						NIL		
		Sulabh Complex near Railway Station.	gents toilet						Rs2/-		
source:primary survey May-2005											

Result 7	Adequate safe public drinking water supply points are provided for the pilgrims in the identified project areas										
Indicator 7.1	No. of public water supply facilities and their status	Location of public water supply point									Avg. no. of users per day
			Well maintained	maintained but no water supply	poorly maintained	Not at all usable	Status				
		no data									

Indicator 7.2	Water quality of public water supply	Location of facility	pH	BOD	DO	Total Coliform	SS	TDS	Others (specify)	Classification	
		Core Area - municipal water supply may-2005	7.45	2.8	4.96		15	310		Highly polluted	Well with in drinking water standards
source:APSPCB - May-2005											

Component 1.2 Conservation of natural resources

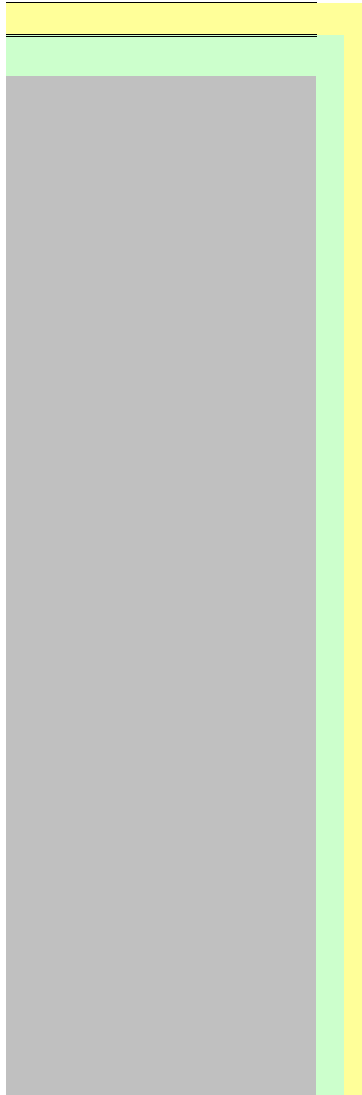
Result 8	Initiatives for water harvesting are undertaken in the identified project areas	Location of installation	Details of installation											
		proposed but not yet installed												
Result 9	Protection/improvement of the identified existing water bodies is undertaken	Designated use												
Indicator 9.1	Water use	Name of water body	Description of water body	drinking water without conventional treatment but after disinfection	outdoor bathing(organised)	Drinking water source with conventional treatment followed by disinfection	Propagation of wildlife, fisheries	Irrigation, industrial cooling , controlled waste disposal						
	source:Eco-city development plan project for the core area of Tirupati town-March-2005	Koneru	Koneru represents the largest natural resource of the core area . The stepped well in old T.T.D administrative campus and natural spring based tank in the temple.											
* for which environmental improvement action is taken / intended to be taken under EcoCity Project														
Indicator 9.2	Water quality	Name of water body	Description of water body	parameters										
	source:Eco-city development plan project for the core area of Tirupati town-March-2005	Koneru	Koneru represents the largest natural resource of the core area . The stepped well in old T.T.D administrative campus and natural spring based tank in the temple.	total coliform organisms(MPN/100ml)	H P	DO	BOD	Free Ammonia	Total suspended solids	Total hardness	Total dissolved solids	EC	SAR	Polluted
					7.9		3.4		25	510	286			✓
Result 10	Ground water tables in the projects areas are improved	Location			Water table b.g.l (below ground water level) at various locations									
		PROJECT AREA			85ft-300ft									
		source: municipality			300ft									
Result 11	The existing degraded land under contamination/pollution is improved	Location of degraded/contaminated land	Description		quality of soil	Status								

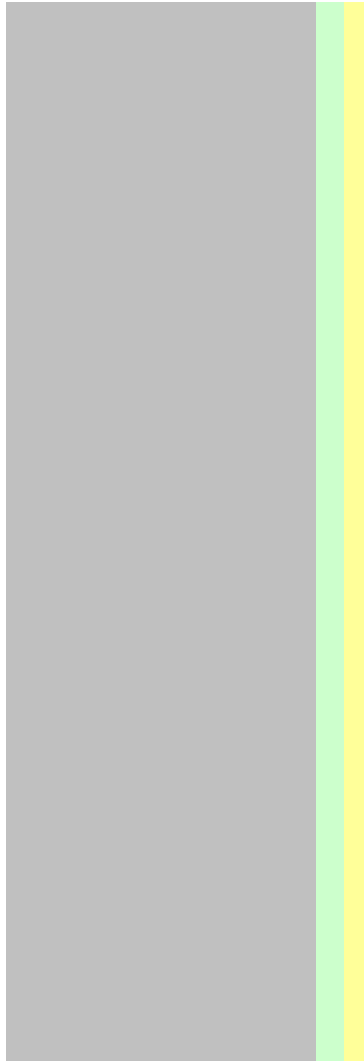
				H P	metals	Pesticides	Others (specify)	Dumped with bio-degradable material viz. garbage				Dumped with plastics and other not easily bio-degradable materials	Dumped with chemical or hazardous waste
source-primary survey-May-2005	Near reservation complex along southern side of koneru.	used for open defecation and garbage dumping											
						NO DATA							

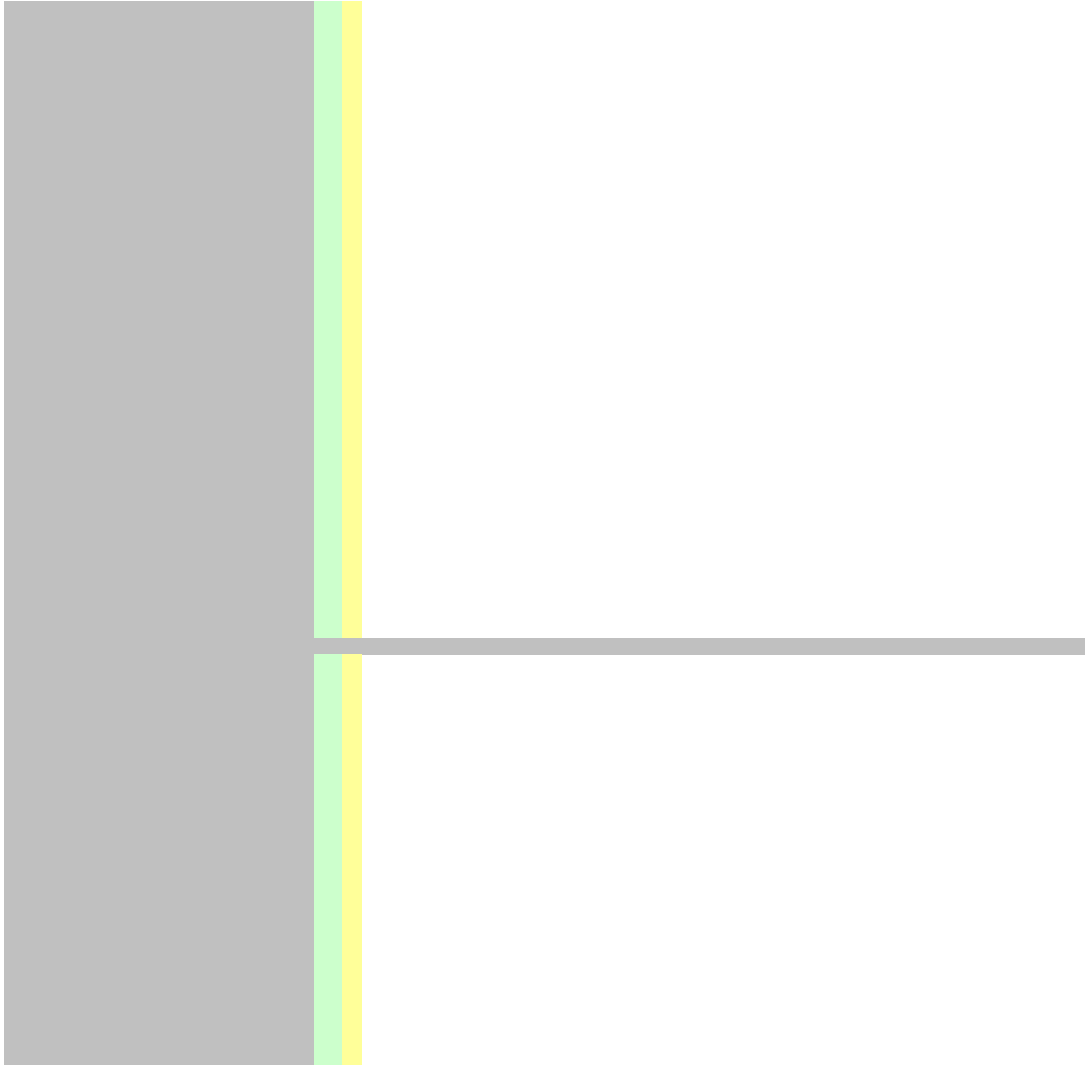
Component 1.3 Energy efficiency

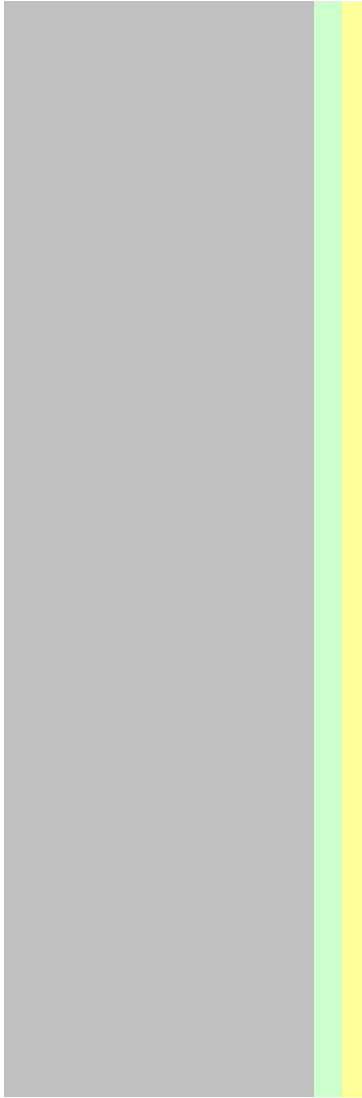
Result 12	Usage of non conventional energy is demonstrated in the identified project areas	Location	Installation where non conventional energy is used	description details	
		no data			

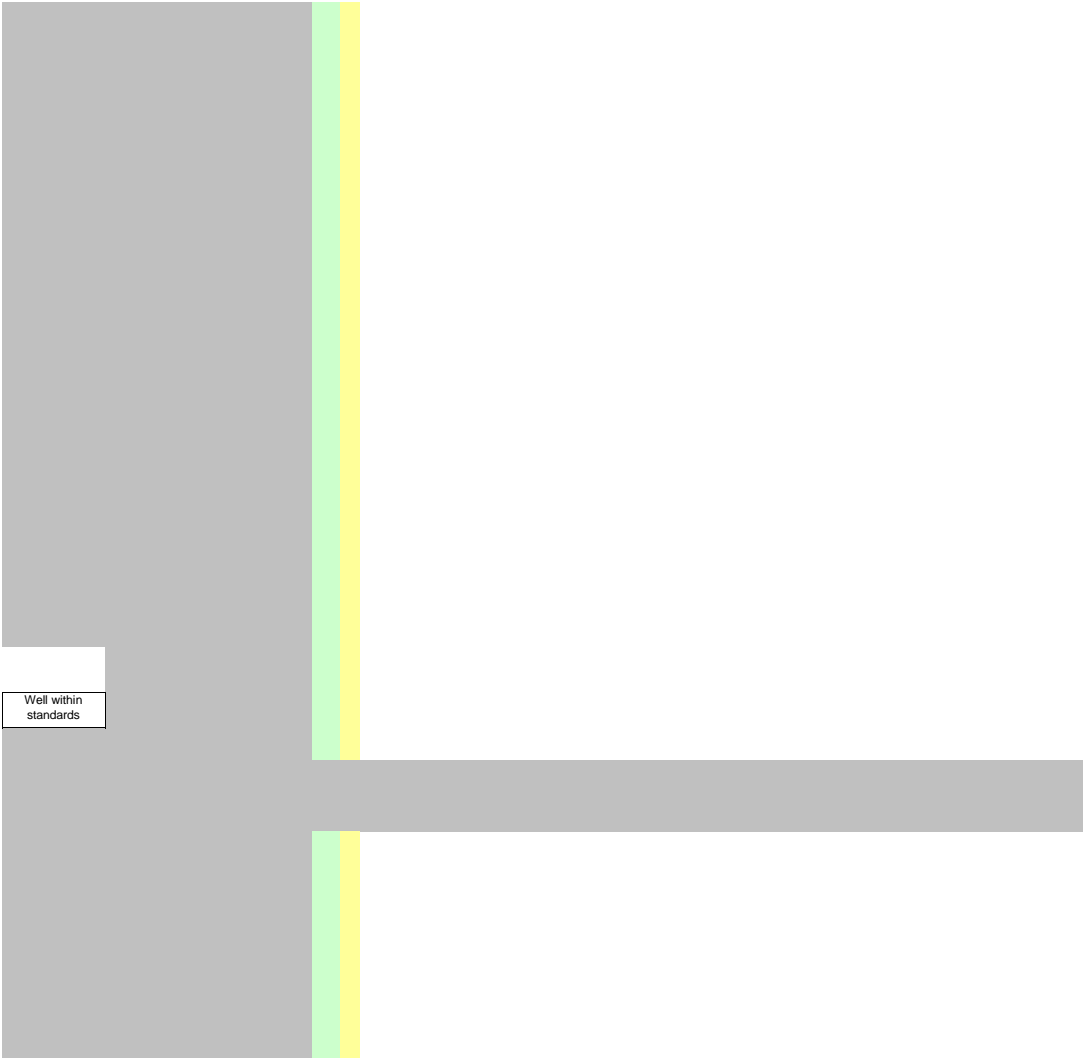
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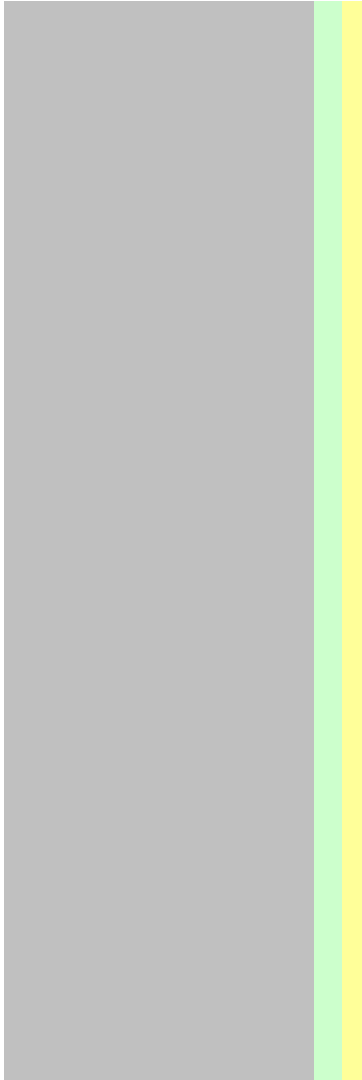


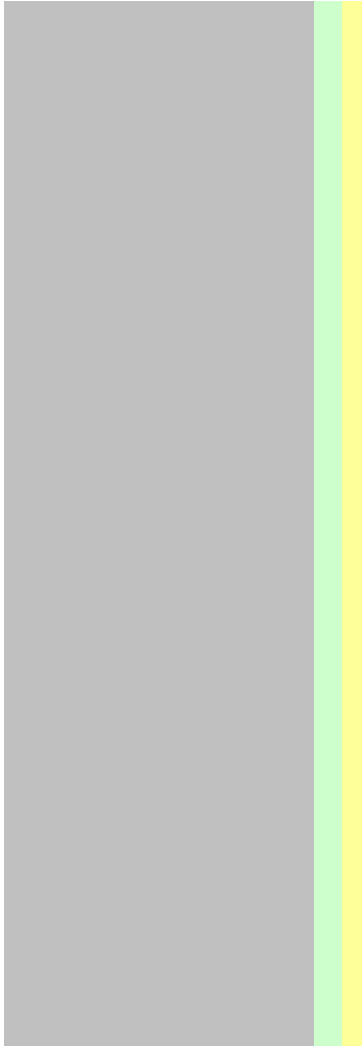




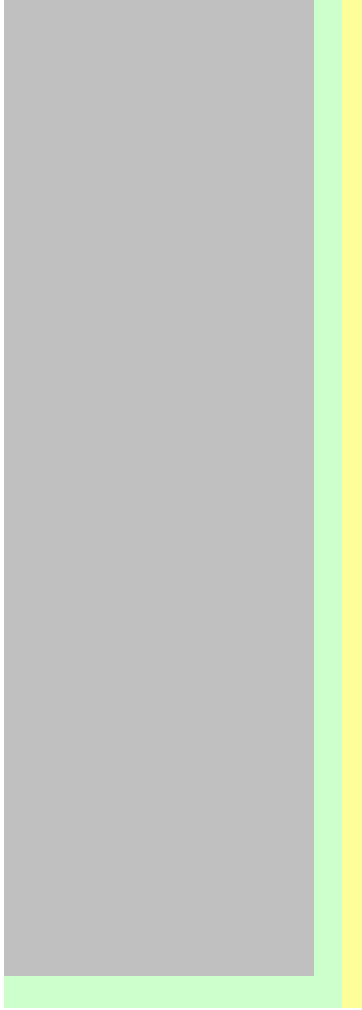


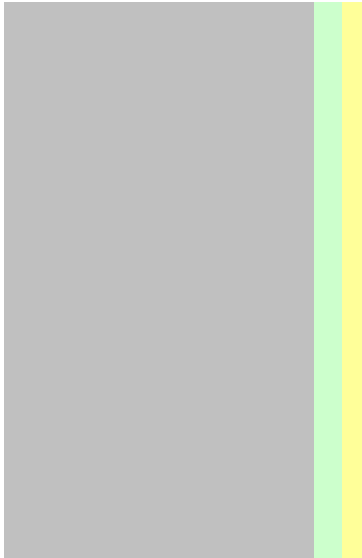
Well within standards





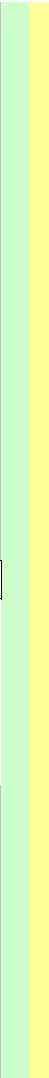
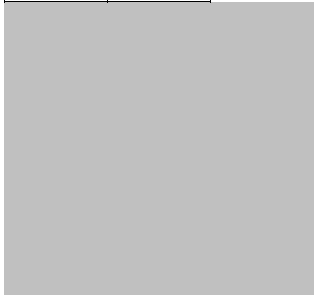
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