Laboratory	Quality Control and Quality Assurance Laboratory, Tata Coffee Limited, SF No. 906, Jayamangalam Village, Periyakulam (Tk), Theni (Dt.), Tamil Nadu	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-5368	Page 1 of 3
Validity	27.03.2017 to 26.03.2019	Last Amended on

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

## **BIOLOGICAL TESTING**

١.	FOOD & AGRICULTURE PRODUCT			
1.	Coffee and Cocco Products	Total Plate Count	ISO 4833:2003	10cfu/gm to 100000 cfu/gm
		Yeast And Mold	ISO 21527-2:2008	10 cfu/gm to 1000 cfu/gm
		Enterobacteriace	ISO 21528-2:2004	10 cfu/gm to 80 cfu/gm

Laboratory	Quality Control and Quality Assurance Laboratory, Tata Coffee Limited, SF No. 906, Jayamangalam Village, Periyakulam (Tk), Theni (Dt.), Tamil Nadu	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-5368 Page 2 of 3	
Validity	27.03.2017 to 26.03.2019	Last Amended on

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

## CHEMICAL TESTING

Ι.	FOOD & AGRICULT	URE PRODUCT		
1.	Coffee and Cocoa Products	Moisture	IS 2791:1992 Annex B(Oven method) and Karl fishcer method ISO20938:2008	0.1 % to 6.0 %
		Bulk density	IS16033:2012/ISO 8460:1987	0.095 g/cc to 0.379 g/cc
		Solubility	IS 2791:1992 Annex E	1 second to 180seconds
		Caffeine	ISO20481:2008/ IS 16028 : 2012	0.5 % to 10%
		Total Ash	IS 2791:1992 Annex C	4 % to 12%
11.	WATER			
1.	Boiler Blow Down Water	рН	IS 3025 PART II Reaffirmed 2002	1-14
		TDS	IS 3025 PART 14	0.001 g/l to 1000 g/l
		Conductivity	Reaffirmed 2002	0 ms/cm to 1100 ms/cm
		Total Hardness	IS 3025 (part21):2009	2 mg/l to 10000 mg/l
2.	Effluent treated water	Alkalinity	IS 3025 (part23):1986 (Reaffirmed 2003)	2 mg/l to 10000 mg/l
		Silica ion	TICD/SOP/411 Issue No :01 Issue Dt:01.06.2016	0.05 mg/l to 1070 mg/l
		Iron	TICD/SOP/418 Issue No :01 Issue Dt:01.06.2016	0.005 mg/l to 5.00 mg/l
		рН	IS 3025 PART II Reaffirmed 2002	1-14
		TDS	IS 3025 PART	0.001 g/l -1000 g/l

Laboratory	Quality Control and Quality Assurance Laboratory, Tata Coffee Limited, SF No. 906, Jayamangalam Village, Periyakulam (Tk), Theni (Dt.), Tamil Nadu	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-5368	Page 3 of 3
Validity	27.03.2017 to 26.03.2019	Last Amended on

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Conductivity	14Reaffirmed 2002	Up to 1100ms/cm
		Chemical oxygen	TICD/SOP/414	10 mg/l to 10000 mg/l
		demand	Issue No :01	
	_		Issue Dt:01.06.2016	
		Biological oxygen	TICD/SOP/415	Up to 4000 mg/l
		demand	Issue No :01	
	-		Issue Dt:01.06.2016	
		Total suspended solids	IS (3025 part 17):1984	10 mg/l to 10000 mg/l
			(Reaffirmed2012)	
		Turbidity	IS 3025 PART 10	Up to 800 NTU
			Reaffirmed 2002	
3.	Water to be used	рН	IS 3025 PART II	1-14
	for Manufacturing		Reaffirmed 2002	
		TDS	IS 3025 PART 14	0.001 g/l to 1000 g/l
		Conductivity	Reaffirmed 2002	0 ms/cm to 1100 ms/cm
	_	Total Hardness	IS 3025 (part23):1986	2 mg/l to 10000 mg/l
	_	Alkalinity	(Reaffirmed 2003)	2 mg/l to 10000 mg/l
		Residual chloride	IS 3025 (part32):1988	2 mg/l to 5000 mg/l
			(Reaffirmed2003)	
		Silica ion	TICD/SOP/411	0.05 mg/l to 1070 mg/l
			Issue No :01	ç ç
			Issue Dt:01.06.2016	