

Doc .No.:FT/PUR-SQA /14

Rev. No : 05

Date.:07-05-2021

3. Mr. Pankaj Rathi

Supplier Information	
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Supplier Name:-	Metalman Auto	Certification:- ISO 9001:2015	Consent to Operate:	Available	Date:-	30/01/2024

Location:- B-12, MIDC Waluj, Aurangabad Certificate No.:- C635176-CC1 Consent No.:- 2111000880 Assessed By:-

1. Mr. Sudhanshu Dharmadhikari Contact Person:- 1) Mr. Arun Thorat Expiration:- 10-12-2026 Expiration:- 30-09-2026 2. Mr. Sumeet Haldekar

2) Mr. R.S. Gaikwad

Phone Number:- 8600019609 Register:- DNV Register:- MPCB

#### Type of Surface Treatment Process

Alkaline Zinc Plating	NA	Powder Coating Ferrous	NA	Hard Chrome Pl	NA_	Other	NA

Ni-Cr Plating \_\_NA\_\_\_ Powder Coating Non-Ferrous \_\_NA\_\_\_ CED Coating Yes

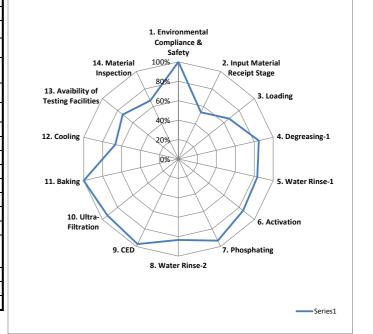
Anodizing NA\_\_\_\_\_ Phosphating \_\_\_NA\_\_ Painting NA\_

Product Details Other Customers

Dust cover

BMW, HD, BAL

			Criteria	Wtg.	% Score Achieved	Marks Achieved
Scorings Guideline for the Auditors		1. Environmental Compliance & Safety	15	100%	15.0	
Sr No	Score	Remark	2. Input Material Receipt Stage	5	53%	2.7
1	3	System is in place (Complying)	3. Loading	5	67%	3.3
2	2	System is in place but needs improvement	4. Degreasing-1	5	85%	4.2
3	1	System is in place but not evidenced	5. Water Rinse-1	3	83%	2.5
4	0	No Compliance	6. Activation	6	85%	5.1
			7. Phosphating	5	93%	4.7
			8. Water Rinse-2	3	83%	2.5
			9. CED	10	97%	9.7
			10. Ultra-Filtration	5	93%	4.7
		submit action plan for the points	11. Baking	5	100%	5.0
	where score is mentioned 2 Points marked with * ar	as 0 & 1 e critical requirements where	12. Cooling	3	67%	2.0
Note:-	supplier must score Min.2		13. Avaibility of Testing Facilities	10	73%	7.3
		re must compliance requirements	14. Material Inspection	5	67%	3.3
	where supplier can score of 4. All process parameters Actual) as per valid contro	should be verified (Specified Vs	15. Packing and Storage of Finished Products	5	33%	1.7
			16. Other Requirements	5	87%	4.3
ā	75 ~ 100	Approved	17.Process Change Management	5	100%	5.0
Score				100	83%	83.1
ġ;	60 ~ 74.9	Approved with Conditions				





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	<u> </u>					
⋖	Less Than 60	Rejected				
Sr No	Ch	neck Points	Requirements	Wt.	Mark	Observations/Evidences
1	Environmental Compliance &	Safety			Score	Observations/Evidences
1.1	MPCB certificate / consent to o	operate	certificate of pollution control board		3	Available, No-2111000880 , Validity- 30/09/2026
1.2	ETP, Agreement with CETP & E	inviron Power for Sludge Disposal		Ī	3	Available, MEPL membership no- 33001224, validity- 02/09/2028
1.3	STP			150/	3	Available
1.4	Legal Compliances as per facto	ory Act.		15%	3	Available
1.5	Are required PPE'S (Personal P	rotective Equipments) are provided?		Ī	3	PPE's are provided.
1.6	Do supplier have provision of f	ire extinguishers, emergency exists etc.?		Ī	3	FE- 10 Nos available.
			Score		100%	
2	Input Material Receipt S	Stage			Score	Observations/Evidences
2.1	Proper storage & Identifica	tion	Material must be stored under controlled atmosphere.		2	storage space is available with identification but need to improve 5S of the area.
2.2	Chemical Storage, Invento	ry norms & issue system	Defined storage for chemicals with MSDS, check for inventory management & chemical issue for line		2	Chemical storage is available with MSDS displayed.
2.3	Chemical supplier		Check for ETL approved chemical source is being used	5%	2	Henkel
* 2.4	Chemical shelflife / Expiry	Control mechanism & FIFO	Defined shelf life monitroing with FIFO system		1	FIFO is followed but FIFO SOP is not available.
2.5	Inward Inspection		There should be 100% inspection for Rust. No rusty material should go for Powder coating		1	Inward inspection station is not available.
			Score		53%	
3	Loading				Score	Observations/Evidences
3.1	Jigs for all components				2	Jigs are available for loading. B\jig validation completed
3.2	SOP for loading with Weig	ht/Area Calculation Chart		5%	2	Loading matrix available but also need to be prepared for dust cover etc.
3.3	Weighing machine			370	2	Available
3.4	Rework SOP for Rusty part		Score		2 67%	Rework SOP available.
4	Degreasing-1		3000		Score	Observations/Evidences
4.1	Chemical Name		Display of chemical name and process specification near tank		2	Bonderite C-AK 4045 is used. Display need to be changed
4.2	Method		Dip Type / spray	<u> </u>	3	Dip type
7.2	Ticalou		Parts should not touch to each other	]	3	Parts do not touch each other
4.3	Pointage		after every 3 or 4 hours	1	3	Spec- 50-60 ml, actual- 56 ml
4.5	Timer with controller		Buzzer		3	Auto PLC controlled
4.6	Temp.(Controller for High		start of the shift	5%	3	Spec- 45-50 deg c, actual- 49.3 deg c
4.7	Air Agitation to be provided	d to degreasing chemical.		]	2	Not available but solution continuously circulated through pump.



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4.8	Oil content checking	monthly	<u> </u>	3	Checking done in-house		
4.9	Bath Discard Schedule		-	3	Once/ quarter		
4.10	Provision of Oil skimmer in the tank.		ļ	3	Oil skimmer available		
4.11	Minimum solution level marking			0	Not available		
	Water Rinse 1	Score		85%	Observations/Evidences		
5	water kinse 1			_			
5.1	Method	Dip Type / spray		3	Dip type		
5.1	metriod	Cascade System (Rinse within inlet and outlet connection)		3	Cascade system available		
5.2	PH	after every 3 or 4 hours	3%	1	Concentration is being checked in place of pH		
5.3	Air agitation			2	Not available but solution continuously circulated through pump.		
5.4	Continuous flow			3	Available		
5.5	Bath discard Schedule.			3	Once/ week		
		Score		83%			
6	Activation			Score	Observations/Evidences		
6.1	Chemical	Display of chemical name and process specification near tank		2	Fixodine 50 chemical is used. Display need to be changed		
6.2	Method	Dip Type / spray		3	Dip type		
6.3	Pointage / Concentration / Total Alkali	after every 3 or 4 hours		3	Spec- 2-10 ml, actual- 3.8 ml		
6.4	РН	after every 3 or 4 hours		3	Spec- 8-10, actual- 8.67		
6.5	Timer with controller	Buzzer	6%	3	Auto PLC controlled		
6.6	Temperature controller and indicator					3	At room temperature
6.7	Bath discard Schedule.			3	once/ 3 weeks		
6.8	Minimum solution level marking			0	Not available		
6.9	Activation tank			3	Available		
		Score		85%			
7	Phosphating			Score	Observations/Evidences		
7.1	Chemical	Display of chemical name and process specification near tank		2	Granodiene 958 AE, Granostarter 65, granotonner C-16 is used, display need to be changed.		
7.2	Method			3	Dip type		
7.3	Pointage / Concentration		5%	3	Total acid spec- 20-24 ml, actual- 21.2 ml, Free acid spec- 0.8-1.2 ml, actual- 1 ml		
7.4	Timer with controller	Buzzer		3	Auto PLC controlled		
7.5	Temperature controller and indicator		<u> </u>	3	spec- 48-52 deg c, actual- 50.8 ml		
7.6	Detected rectifier				NA NA		
	Score			93%			
8	Water Rinse- 2				Observations/Evidences		
		Dip Type / spray		3	Dip type		
8.1	Method	Cascade System (Rinse within inlet and outlet connection)		3	Available		
			-				



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3.3 A significant	8.2	PH	after every 3 or 4 hours	3%	1	Concentration is being checked in place of pH
S	8.3	Air agitation			2	Not available but solution continuously circulated through pump.
3   30   10   10   10   10   10   10	8.4	Continuous flow			3	Available
9   TOP	8.5	Bath discard Schedule.			3	Once / week
	_					
	9	CED	T		Score	Observations/Evidences
9.3   Fornitage / Concentration	9.1	Chemical			2	Display need to be changed
9.4   Time rwith controller   Buzzer   10%   3   Auto PLC controlled   3   Spec-28-32 deg c, actual -29.2 deg c   3   Available   3   Availa	9.2	Method	Dip Type / spray		3	Dip type
Second process of the controller and indicator   Second process pacification   Second process	9.3	Pointage / Concentration			3	NVM spec- 10-14%, actual- 12.08%
Detected rectifier	9.4	Timer with controller	Buzzer		3	Auto PLC controlled
Solidar   Chiller unit   Solidar   Chiller unit   Solidar   Soli	9.5	Temperature controller and indicator			3	Spec- 28-32 deg c, actual -29.2 deg c
9.8 Capacitive Chiller unit 9.9 Filtration system 9.10 Off line regeneration tank 9.11 Furne exhaust system 9.12 Firm clamping of bus bar and cable 9.12 Firm clamping of bus bar and cable 9.12 Chemical 9.14 Chemical 9.15 Chemical 9.16 Display of chemical name and process specification near tank 9.17 Inter with controller 9.18 Firm clamping of bus bar and cable 9.19 Display need to be changed 9.10 There with controller 9.10 Method 9.11 There with controller 9.12 Firm clamping of bus bar and cable 9.13 Socre 9.75% 9.75	9.6	Detected rectifier		10%	3	Available
9.8   Filtration system	9.7	Chiller unit			3	10 Ton capacity chiller unit available
9.10 Off line regeneration tank 9.11 Furne exhaust system 9.12 Firm clamping of bus bar and cable 9.12 Firm clamping of bus bar and cable 9.13 Outra-Fitration 10 Utra-Fitration 10.1 Chemical 10.2 Method 10.3 Pointage / Concentration 10.4 Timer with controller 10.5 Temperature controller and indicator 10.6 Detected rectifier 10.6 Detected rectifier 10.7 Score 11.8 Baking 11.1 Marked enclosed space away from plating plant 11.2 Racks for storage 11.3 Baskets for storage 11.4 Tag system for baking 11.5 Tag system for baking 11.6 Detected rectifier 11.7 Tag system for baking 12.8 Available 3 Available 3 Satisfactory condition observed. 97% 97% 97% 97% 97% 90 Score 97% 950 Score 950 Secre 950 Score 950 Available 3 Satisfactory condition observed. 97% 91.0 Score 950 Score 950 Score 950 Available 3 Available 4 Available 3 Available 4 Available 5 Available 5 Available 6 Available 7 Available 8 Available 9 Availabl	9.8	Capacitive Chiller unit			3	To for capacity crimer drift available.
9.11 Furne exhaust system 9.12 Firm clamping of bus bar and cable  To Ultra-Filtration  10.1 Chemical 10.2 Method 10.3 Pointage / Concentration 10.4 Timer with controller 10.5 Temperature controller and indicator 10.6 Detected rectifier 10.6 Detected rectifier 10.7 Marked enclosed space away from plating plant 10.1 Marked enclosed space away from plating plant 10.2 Racks for storage 11.1 Racks for storage 11.2 Racks for storage 11.3 Baskies  3 Available 3 Satisfactory condition observed.  97% Score 97% 3 NVM spec- max. 2%, actual- 1.43% 3 At room temperature NA	9.9	Filtration system			3	Available
9.12 Firm clamping of bus bar and cable  Score  10 Ultra-Filtration  10.1 Chemical Display of chemical name and process specification near tank  10.2 Method Dip Type / spray  10.3 Pointage / Concentration  10.4 Timer with controller Buzzer  10.5 Temperature controller and indicator  10.6 Detected rectifier  10.7 Baking  10 Baking  10 Baking  11 Baking  Score  11 Baking  Score  11 Baking  Score  12 Display need to be changed  3 NVM spec- max. 2%, actual- 1.43%  3 Auto PLC controlled  3 At room temperature  NA  NA  Score  Observations/Evidences  3 Auto PLC controlled  3 At room temperature  NA  Score  Observations/Evidences  3 Available	9.10	Off line regeneration tank			3	NA, dump tank available
Score   97%   10   Ultra-Filtration   Display of chemical name and process specification near tank   2   Display need to be changed   3   NVM spec- max. 2%, actual- 1.43%   3   NVM spec- max. 2%, actual- 1.43%   3   Auto PLC controlled   3   At room temperature   3   At room temperatur	9.11	Fume exhaust system			3	Available
10   Ultra-Filtration   Display of chemical name and process specification near tank   Display of chemical name and process specification near tank   Display need to be changed   Display n	9.12	Firm clamping of bus bar and cable				Satisfactory condition observed.
Display of chemical name and process specification near tank		Lillian Citanatan	Score			
10.1   Chemical   near tank	10	Ultra-Filtration				
10.3 Pointage / Concentration  10.4 Timer with controller  10.5 Temperature controller and indicator  10.6 Detected rectifier  11 Baking  11.1 Marked enclosed space away from plating plant  11.2 Racks for storage  11.3 Baskets for storage  11.4 Tag system for baking  11.5 NVM spec- max. 2%, actual- 1.43%  3 Auto PLC controlled  3 At room temperature  NA  93%  Score  93%  Score  93%  3 Available  3 Available  3 Available  3 Online conveyrised baking system available.			B: 1 (1 : 1   1   :c ::		Score	Observations/Evidences
10.4 Timer with controller 10.5 Temperature controller and indicator 10.6 Detected rectifier  Score 11.1 Baking 11.2 Racks for storage 11.3 Baskets for storage 11.4 Tag system for baking 15% 3 Auto PLC controlled 3 At room temperature  NA  Auto PLC controlled 3 At room temperature  NA  Available  3 Available  3 Available  3 Available  3 Online conveyrised baking system available.	10.1	Chemical				
10.5 Temperature controller and indicator  10.6 Detected rectifier  NA  Score 93%  11 Baking  Score Observations/Evidences  11.1 Marked enclosed space away from plating plant  11.2 Racks for storage  11.3 Baskets for storage  11.4 Tag system for baking  3 At room temperature  NA  NA  Online conveyrised baking system available.			near tank		2	Display need to be changed
10.6 Detected rectifier  Score 93%  11 Baking Score Observations/Evidences  11.1 Marked enclosed space away from plating plant  11.2 Racks for storage 3 Available  11.3 Baskets for storage 3 Online conveyrised baking system available.  11.4 Tag system for baking 3 Available	10.2	Method	near tank	5%	2	Display need to be changed  Dip type
Score 93%  11 Baking Score Observations/Evidences  11.1 Marked enclosed space away from plating plant  11.2 Racks for storage 3 11.3 Baskets for storage 3 Online conveyrised baking system available.  11.4 Tag system for baking  5%	10.2	Method Pointage / Concentration	near tank Dip Type / spray	5%	2 3 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%
11BakingScoreObservations/Evidences11.1Marked enclosed space away from plating plant3Available11.2Racks for storage311.3Baskets for storage3Online conveyrised baking system available.11.4Tag system for baking3	10.2 10.3 10.4	Method Pointage / Concentration Timer with controller	near tank Dip Type / spray	. 5%	2 3 3 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled
11.1 Marked enclosed space away from plating plant  11.2 Racks for storage  11.3 Baskets for storage  11.4 Tag system for baking  3 Available  3 Online conveyrised baking system available.  3 3 Available  3 3 Available  3 3 Available	10.2 10.3 10.4 10.5	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator	near tank Dip Type / spray Buzzer	5%	2 3 3 3 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature
11.2 Racks for storage  11.3 Baskets for storage  11.4 Tag system for baking  3 Online conveyrised baking system available.  3 3 Online conveyrised baking system available.	10.2 10.3 10.4 10.5 10.6	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator  Detected rectifier	near tank Dip Type / spray Buzzer	5%	2 3 3 3 3 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature  NA
11.3 Baskets for storage  3 Online conveyrised baking system available.  11.4 Tag system for baking  5%	10.2 10.3 10.4 10.5 10.6	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator  Detected rectifier	near tank Dip Type / spray Buzzer	5%	2 3 3 3 3 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature  NA
11.4 Tag system for baking 3 5%	10.2 10.3 10.4 10.5 10.6	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator  Detected rectifier  Baking	near tank Dip Type / spray Buzzer	5%	2 3 3 3 3 3 93% Score	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature  NA  Observations/Evidences
5%	10.2 10.3 10.4 10.5 10.6	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator  Detected rectifier  Baking  Marked enclosed space away from plating plant	near tank Dip Type / spray Buzzer	5%	2 3 3 3 3 3 93% Score	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature  NA  Observations/Evidences
lare level .	10.2 10.3 10.4 10.5 10.6 11 11.1	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator  Detected rectifier  Baking  Marked enclosed space away from plating plant  Racks for storage  Baskets for storage	near tank Dip Type / spray Buzzer	5%	2 3 3 3 3 3 93% Score 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature  NA  Observations/Evidences  Available
11.5 Bins for storage 3 Available	10.2 10.3 10.4 10.5 10.6 11.1 11.2 11.3	Method  Pointage / Concentration  Timer with controller  Temperature controller and indicator  Detected rectifier  Baking  Marked enclosed space away from plating plant  Racks for storage  Baskets for storage  Tag system for baking	near tank Dip Type / spray Buzzer		2 3 3 3 3 3 93% Score 3 3 3	Display need to be changed  Dip type  NVM spec- max. 2%, actual- 1.43%  Auto PLC controlled  At room temperature  NA  Observations/Evidences  Available  Online conveyrised baking system available.



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11.6	Temperature Indicator and controller			3	Spec- 180-210 deg c, actual- 180 deg c
11.7	Timer with controller	Buzzer		3	Auto PLC controlled
					A Y-bit
11.8	Pre set timer			3	Available
		Score		100%	
12	Natural Cooling			Score	Observations/Evidences
12.1	Cold air blow		20/	1	Parts are cooled by natural air
12.2	Air temperature		3%	3	Ambient
		Score		67%	
13	Avaibility of Testing Facilities			Score	Observations/Evidences
13.1	Work instruction for testing	Work instruction to be displayed for all test			Work Instructions are available.
13.2	Testing Plan			3	Available
13.3	Availability of Thickness tester (Destructive)		10%	0	Not available
13.4	Availability of Thickness tester (non Destructive)			2	Available but master not available.
13.5	SST test			3	Available.
		Score		73%	
14	Material Inspection			Score	Observations/Evidences
14.1	Availability of infrastructure for final inspection like, Inspection table, proper illumination min 700 lux, visual instruction for inspection sequence, pictorial displays on defect phenomenon's, reference samples for visual defects, required gauges and measuring instruments etc.			3	Final inspection setup is inadequate. Need to add one more table as per ETL requirement.
14.2	Display of master samples and check sheet at final inspection station.	Master defect sample must be displayed on 100% checking station along with inspection check sheet	5%	1	Master samples are available. But need dust cover samples also.
14.3	All detectable / mutually agreed parameters in final inspection			2	Yes, available
		Score		67%	
15	Packing and Storage of Finished Products			Score	Observations/Evidences
	Availability of mutually agreed packing standards?	As per Inspection agreement			Available
15.2	Availability of defined system including component wise storage space, stacking height etc.		E0/	1	Such system is not defined.
15.3	Use of bins for storage and handling of powder coated components.	After powder coating no component to component contact.	5%	1	Dedicated bins are used.
15.4	FIFO system at FG storage			1	FIFO is followed but FIFO SOP is not available.
	Score			33%	
16	Other Requirements			Score	Observations/Evidences
16.1	Organization chart with clear roles and responsibility			2	Available however it is recommended to resubmit it with ECED plant personnel names in it.
			-		



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16.2	Dedicated chemist			3	Name- Mr. Sandip Take
16.3	Condition of Jig / Fixture / Masking / ROP of all our parts			2	Satisfactory condition observed, however need to prepare loading matrix with Jig/Hanger design and no.of parts per Jig.
16.4	Other testing plan as per customer requirement.	Refer testing standard as per Part Drawing			NA NA
16.5	DM Water Plant			3	Available
16.6	No dust on pre treated parts	Mopping to be done on shop floor regularly		3	Satisfactory floor condition observed.
16.7	Availability of Part drawing and related testing standards	Availability of Part drawing and related testing standards		1	REML standard is not available.
16.8	Auto matic / Semi automatic plant with PLC control for stoppage facility of Tanks.	Timer to be provided for Audio visual for PT line.	5%	3	Auto PLC controlled
16.9	Auto matic / Semi automatic plant with PLC control for stoppage interlock with OVEN.	Timer to be provided for Audio visual.		3	Auto PLC controlled , Total 10 Nos of interlock available.
16.10	In -house Pre -Treatment chemical testing Lab.	PT Line parameter checking.		3	Available
16.1	Pre-treatment specification	Pre-treatment chemical specification in line with Chemical Mfg. specifications		3	ок
16.12	PM for EQPT & M/C	Schedule and Plan for PM		3	PM plan and check sheet available.
16.13	Calibration of all Temp controllers , timers, pressure gauges, plating thickness instruments	calibration frequency and plan should available.		3	Equipments are new calibration will be done as per plan
16.14	Operator Skill and Knowledge.	Operator knowledge to perform the inspection of process parameters.		1	Stage wise skill matrix is not available.
16 11	Reworking of powder coated parts.	Process flow for reworking of parts.		3	Available
10.1.	neworking of powder coated parts.	Record of rework parts.		3	Available
		Score		87%	
17	Process Change Management			Score	Observations/Evidences
17.1	A systematic method is followed for process change management inline with Endurance / Customer Requirements. Awareness system to all members regarding importance of IPP system/ Change management			3	Available
17.2	Approval is taken from Endurance for any change in process sequence, raw material, sub supplier, and outsourcing of internal operations.		5%	3	Followed
17.3	7.3 Necessary changes are made in documents w.r.t Endurance approved process changes.			3	Followed
		Score		100%	