Minutes of Pre Bid Meeting

ICB No. 21/TCSP/GOODS/P3/2015/TR/TC (Package -3)

Minutes of the Pre-bid meeting of International Competitive Bidding (ICB) held on 21.05.2015 at 3.00 P.M. in the Committee Room of Office of DC (MSME) for supply of 10 lots of Machines and Equipment for Aurangabad and Bhubaneshwar.

A pre-bid meeting was held today on 21.5.15 at 3.00 PM in the committee room, office of DC,MSME, NirmanBhawan under the Chairmanship of Sh. R.K.Pandey, Joint Development Commissioner, O/o DCMSME, for the prospective bidders for the ICB to supply 10 lots of Machines and equipment for Aurangabad and Bhubaneshwar under World Bank assisted Technology Centre Systems Programme. List of participants is enclosed at Annexure-1.

At the outset, Shri Ramesh Kumar Pandey, Joint Development Commissioner warm welcomed all the designated representatives, present in the pre-bid meeting and gave a detailed background of TCSP.

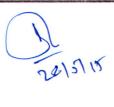
He informed to the participants that if there is any query and doubt, they can raise those queries and if possible, we shall try to reply those queries here itself otherwise, the reply will be given after due consideration and will be uploaded on our web-site.

The designated representatives of the participating organizations raised their queries during the pre-bid meeting. They were asked to give their queries in writing so that same can be considered and approved by the competent authority before uploading on the website of O/O DCMSME. They were also requested to visit website regularly to get timely updates.

The compilations of the queries raised by participants and response to queries are as follows:



Sr. No	Query	Response of the Client
1.	Lot No.1 &6 PROVEOUTOFSAMPLEPART-Qualification	Refer Sr. No. 7 of
••	material	Addendum/Corrigendum No. 1
	Its not clear from the ICB the exact requirement for	, reasonating constraints
	sample prove out i.e. Chemical Analysis / Metallographic	
	Analysis/ Material Testing/MIL Certification of End use	
	part etc.	
	Its also not clear whether you require any Quality	
	Assurance check during the Production process so that	
	End part produced meet the specified certifications for	
	example How the build process will ensure that the layer	
	thickness is exactly the same as defined in the parameter	
	and if there is any feedback loop during the Production	
	process to guarantee the layer build process.	
	Another example is to ensure that the laminar flow is	
	maintained all the time during the build process which is	
	very critical for some of the materials like Inconel/HX to	
	maintain the desired quality levels.	
2.	Lot No.1 &6	It refers to the Powder
	2011012 00	in teres to the rowae.
	Sr.No 3, Point No 9 (c)	
	Also kindly confirm if the material should have Mill	
	certificate of the powder as well as sintered part.	
3.	Lot No.1 &6	Yes
0.	15011012 45	1.65
	Sr.No3, Point No 3	
	Kindly confirm if the powder bed monitoring is similar to	
	laser powder monitoring at the powder chamber.	
4.	Lot No.1 &6	Yes
	15011012 45	1.65
	The prove out will be based on the data sheets provided	
	by the OEMS.	
5.	Lot No.1 &6	No amendment is considered necessary.
		, ,
	Fatigue life & creep/stress rupture life gives, point No 9	
	can be subjective. How to certify since it is based on	
	geometries.	
6.	Lot No.1 &6	Yes
-		
	Point no 12 (Scanner)	
	Does this mean that the scanner size should be the same	
	as X,Y size of the effective buil envelope.	
7.	Lot No.1 &6	No amendment is considered
		necessary.The information in the bid
	Point No 14, Handling system – this point is not clear	document is sufficient.
	since this is more relavant for plastic (Polymer additive	
	manufacturing machine)	
	b) how to certify this ?	
8.	Lot No.1 &6	200 No of Filters may be provided.
		Refer Sr. No. 1 of
	Pointo 15, how this 15000 hrs will be calculated.	Addendum/Corrigendum No. 1
9.	Lot No.1 &6	Yes.
	support materials	Refer Sr. No. 6 of



Sr. No	Query	Response of the Client
O. C. C. C.	a) Hot Die Steel 11	Addendum/Corrigendum No. 1
	b) Aluminium Alloy BSL 168	,
	c) Stainless Steel SS 304	
	All these in powder form certified for AM System.	
	In this case equivalent certified materials can be	
	considered (or) not.	
	- For Hot Die Steel 11-steel eqvivalent for die casting	
	tooling.	
	- For Aluminium Alloy BSL 168- Alsi10Mg alloy can this	
	be considered.	
	- For SS304- SS 316 (or) stainless steel 17.4 or 15.5 could be considered.	
	could be considered.	
10.	Lot No.1 &6	Deleted.
		Refer Sr. No. 2 of
	Point No 19 (b) – Part Removal system from Platform	Addendum/Corrigendum No. 1
	Is this Bandsaw or WireEDM	
11.	Lot No.1 &6	No amendment is considered necessary
	Essential Accessories-	
	Essential Accessories-	
	a) Cleaning kits for optics and other sub systems – is	
	this the lens cleaning paper (or) something else.	
	and the telle steering paper (or yearnesting elect	
12.	Lot No.1 &6	Erowa or System 3R.
		Refer Sr. No. 4 of
	Point No C- Clamping system – is this	Addendum/Corrigendum No. 1
	EROWA (or) is this position reference platform with	
13.	dowel pins.	Refer Sr. No. 7 of
10.	2511012 45	Addendum/Corrigendum No. 1
	Proveout of sample parts / qualification materials –	, ,
	kindly provide us the drawing in STL format if you agree	
	STL format.	
	Will some one go for pre dispatch inspection from MSME	
	or should we send only reports if no one is going.	
	For site condition, the vendor can supply the site	
	conditions minus civil and electrical work.	
14.	Lot No.1&6: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.3.2	,
	Prospective Bidder provides inert gas atmosphere with	
	argon gas which is suitable for processing reactive &non	
	reactive materials. Since the processing of reactive	
	materials under atmospheres containing nitrogen (for	
	instance from nitrogen generators) causes nitrides and	
	exothermic reaction, Prospective Bidder does not	
	recommend use of nitrogen. The chamber constructed	
	is of high integrity sealing system and based on vacuum	
	chamber design with ultra-low argon gas consumption (typically under 30 Litre per hour in normal running), this	
	helps in lowering running cost of the machine.	



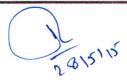
Sr. No	Query	Response of the Client
15.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.3.3	and an extension of the second
	Online monitoring system of build process features are	
	specific to particular manufacturer, if you wish other	
	manufacturers to participate it needs to generalised.	
16.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.3.12	•
	Scanner: Actively cooled deflection mirror. Again this is	
	specific to the particular manufacturer this needs to be	
	generalised.	
17.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.3.13(a)	
	Focussing lens	
	a) F-Theta lens that focuses the beam on a flat plane and	
	a window with provision of dirt cleaning.	
	Again this is specific to the particular manufacturer this	
	needs to be generalised.	
18.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.15(b)	<i>'</i>
	SUPPORT FEATURES	
	b) Filters for serving 15000 hrs to be supplied along with	
	the system	
	(Coater blades - 6 Nos. for each material to be supplied	
	along with the machine.	
	Filter inculdes for 1500 hrs (number of filters will depend	
	on the number of builds - one filter per build). Assuming	
	builds are 100 hours average, then we can include in our	
	offer 150 filters. Recoated blades inculded our offer)	
19.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2	
	BUILD PARAMETERS	
	a) Minimum Layer Thickness / Maximum Layer	
	Thickness	
	20 microns or less / 60 microns or more(yes)	
20.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2	
	BUILD PARAMETERS	
	b) Editable Free parameter range 10 to 200 microns or	
	better (yes)	
21.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2	
	BUILD PARAMETERS	
	c) Layer thickness under Argon	
	30-40 micron or better(always under argon; range 20 - 60	
	micron)	
22.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2	
	BUILD PARAMETERS	
	d) Build Volume Rate	
	7 to 32 cm3/h or better(5-20 cm3/h, it depends on	
	material and layer thickness)	
23.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2	
	BUILD PARAMETERS	
	e) Accuracy- as per ISO 2768-11 DfN or equivalent	



Sr. No	Query	Response of the Client
	standard	
	Over a length of 100 mm	
	70 microns or better	
	Over a length of 250 mm	
	100 microns or better(we don't measure accuracy as per	
	any standard. We have measured ± 50 micron, geometry	
	dependant)	
24.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2	
	BUILD PARAMETERS	
	f) Capability to build parts	
	Minimum wall thickness -not more than 0.8 mm	
25	Minimum diameter-not more than 0.8 mm(yes)	No and describe and describe
25.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.4.2 BUILD PARAMETERS	
	g) Exposure Editor Speed 7 m/s or better(not relevant.	
	We have exposure time and point distance. Laser fires	
	intermittently and not constantly. Scan speed depends	
	on material)	
26.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	Refer Sr. No. 5 of
20.	Tech Spec-Serial No. 5 ESSENTIAL ACCESSORIES	Addendum/Corrigendum No. 1
	The amount of powder needed to build 1000 hrs will very	,,,,
	much depends on the geometry of the part hence this	
	needs to be reviewed.	
27.	Lot No.1 & 6:3-D Additive Manufacturing Machine	Refer Sr. No. 3 of
	Tech Spec-Serial No. 3	Addendum/Corrigendum No. 1
	Whenever a machine is provided under technology	
	improvement program it is always preferred that the	
	system should be upgradable i.e should have upgrade	
	options.	
28.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.3.5	,
	Nitrogen generator should be provided by the	
	manufacturer.(Not Supplied)	
29.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.3.11	
	OPTICS SYSTEM	
	a) The system capable of directing laser beam to melt	
	with the aid of optic, beam	
	expander, scanner mirror / focusing lens etc. Optical	
	surfaces to have special	
	coatings for beam steering.	
30.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Tech Spec-Serial No.3.11	
	OPTICS SYSTEM	
	b) For cooling the laser a water gas cooling system should	
	be provided along with the system.	
	b) Yes, except for neither of the 2 scanheads has actively	
	cooled mirrors	
31.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary
	Locational of District Walter Country	in amendment is considered necessary
01.	Tech Spec-Serial No.3.11	



Sr. No	Query	Response of the Client
<u> </u>	c) The energy source should be min 400 W fibre laser.	
	c) yes, this function is available in the 400 W machine)	
32.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	Refer Sr. No. 2 of
	Tech Spec-Serial No. 5 ESSENTIAL ACCESSORIES	Addendum/Corrigendum No. 1
	Supplier should provide additional equipment for the	
	post-treatment of the parts.	
	(Pls. specify what kind of post-treatments are required? Additional equipment can then be asked for/offered	
	accordingly. A general statement like this is confusing for	
	both the Purchaser & the Supplier.)	
33.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
00.	Tech Spec-Serial No.3.13(b)	The dimension is considered in constant,
	Focussing lens	
	b) Focus diameter in the range 50-150µm.	
	(b) For 400 W, focus diameter is fixed at 135 micron. For	
	200 W, focus diameter is fixed at 70 micron)	
34.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.15(a)	
	SUPPORT FEATURES	
	a) Automatic support generation for overhang features	
	and removal of support impressions through post	
	processing procedures such as air blast to be provided. (yes)	
35.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	Refer Sr. No. 6 of
00.	Tech Spec-Serial No.18	Addendum/Corrigendum No. 1
	SUPPORT MATERIAL	Addendarry corrigendarritor 1
	The supplier shall also supply 100 kgs of each	
	commercially available powder of the following	
	materials.	
	a) Hot Die Steel 11(no, maraging steel 1.2709)	
	b) Aluminium alloy BSL 168(AlSi10Mg)	
	c) Stainless steel SS 304(SS 316L)	
	d) Ti alloy Ti-6AI-4v(yes)	
	e) Nicklealloy I 718(yes)	
36.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.4.4	
	POWER SUPPLY	
	Machine should operate at 400V + 6% 1-10% / with line	
	frequency of SO/60Hz and main fuse protection. Step up	
	Idown transformer should be included in case of	
	variations. An UPS with appropriate specifications to be	
	provided.	
	(Std Power supply 230 V 16 A 1 ph (other power	
27	configurations on request))	No amondanastic considerations
37.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.1 Three is a Point No.5 mentioned on Page 81 regarding	
	Threre is a Point No 5 mentioned on Page 81 regarding mentioning of local source in india for local production	
	and procurement which is not available at this point but	
	our machine is open system so that user can process as	
	· ·	
	per his requirement and procure from anywhere.	



Sr. No	Query	Response of the Client
38.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.1	
	Scanner provided in the machine should be able to scan	
	the complete build volume, on the same page there is a	
	point c which requires integrated home in sensor. Above	
	2 requirements seems to be specific to 1 vendor.	
39.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	Refer Sr. No. 6 of
	Tech Spec-Serial No.1	Addendum/Corrigendum No. 1
	Support material mentioned are specific to vendor and	
	we have different alloy grade available for aluminium and	
	stainless steel.	
40.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.1	
	Point No 4.2	
	Accuracy requirement is as per ISO 2768-1/DIN and over	
	a length of 100 mm, 70 microns or better but as per the	
	machine parameters accuracy depends on the shape /	
	dimension ratio which could vary with design and	
41	material.	No amondment is accelded a con-
41.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
	Tech Spec-Serial No.1	
	there is a requirement of essential like annealing furnace , inert gas generator which could varies with vendor or	
	may not required with in other machine so bidder should	
	suggest or mention the optional accessories.	
42.	Lot No.1: 3-D Additive Manufacturing Machine-Metal	No amendment is considered necessary.
72.	Tech Spec-Serial No.1	No amenament is considered necessary.
	There are many equipments and accessories which could	
	be purchased from india and some con not be quoted in	
	USD to avoid customs so we request you to consider our	S .
	partial proposal in INR.	
43.	LOT No. 1 – 3-D Additive Manufacturing Machine- Metal	No amendment is considered necessary
	AUR/P/001	,
	Section 3- Technical Specification: page 83, Point 9e VII	
	and VIII: These properties are linked to material and	
	depends on geometry, post treatment, hence difficult to	
	provide general data.	
44.	Lot No.2: 3-D Polymer Additive Manufacturing Machine	No amendment is considered necessary
	Tech Spec-Serial No.3	
	Page 92	
	Parts should be manufactured with a maximum of 20%	
	material waste.	
	How can we certify this. This can vary from design to	
45	design and part to part.Kindly clarify.	No good Coo Point No 44 in the state in
45.	Lot No.2: 3-D Polymer Additive Manufacturing Machine	No need. See Point No 11 in the technical
	Tech Spec-Serial No.3	specifications.
	Page 92 Point no F	
	Page 93, Point no 5 Essential Accessories.	
	Since we need compressor, Air Conditioner , do we need	
46.	to quote for this also. Lot No.2: 3-D Polymer Additive Manufacturing Machine	Specifications are self evaluations
40.	Tech Spec-Serial No.3	Specifications are self explanatory
	recir spec-serial No.5	



Sr. No	Query		Response of the Client
* April 10 hr 4 m 4 m		9000 0000 9000 9000 000 000 000 000 000	
	Page No 95, Point no 11		
	Kindly confirm that the vendor do not have to do civil and		
	electrical work.		
47.	Lot No.2: 3-D Polymer Add	itive Manufacturing Machine	Refer Sr. No. 11 of
	Tech Spec-Serial No.3		Addendum/Corrigendum No. 1
	Page No 95, Point no 12-Tra		
	Optimal cooling design & design support does not apply		
	for polymer system .kindly		
48.		itive Manufacturing Machine	No amendment is considered necessary.
	Tech Spec-Serial No.3		
	Page No 95, Point no 10		
	Usage of 3 rd Party materials	s – how will you need us to	
	confirm this.	,	
49.	Lot No.2 : 3-D Polymer Ad	ditive Manufacturing	No amendment is considered necessary.
	Machine		,
	Tech Spec-Serial No.1		
		nachine is oriented towards	
	one technology i.e selective		
		chine areproprietory. Request	
	uou to consider other Rp te		
50.		litive Manufacturing Machine	No amendment is considered necessary
	AUR/P/002		
	Indo German tool Room Aurangabad will be service		
	provider for surrounding in	dustries which are mainly into	
	automotive part manufactu	ires and does not require	
	parts prototyped from mate		
51.		litive Manufacturing Machine	No amendment is considered necessary
	AUR/P/002		
	Material of the machines asked are proprietary & can be		
50	supplied only by one manuf	facturer.	
52.	Lot No.3: 3-D Scanner		No amendment is considered necessary.
	Tech Spec-Serial No.4.1		
	Field of View Field of View		
	45 Field of View	45 x 38 x 30	
		74 x 62 x 45	
	75 Field of View -	260 x 215 x 140	
	500 Field of View -	750 x 630 x 500	
	Accuracy of	10 μm or better	
	measurement	10 μποι better	
	The above are manufacturer specific specifications		
	pertaining to one specific manufacturer. Our suggestion		
	is to specify the pitch (point to point distance) rather		
	than specific fild of view.		
	and specific file of view.		
	Specifications specifying accuracies specifically as		
	a) Probing accuracy form		
	b) Probing accuracy size		
	c) Sphere spacing error		



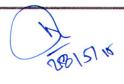
Sr. No	Query	医高种 医红色 法裁判法法	Response of the Client
	d) Length measuring erro	r.	
	ay congumentaring over		
	All have different valus for	different field of view. A chart	
	is required to correctly spe	cify all accuracies.	
	2		
50	1 - 1 N - 2 - 2 B C		Defence No. 12 of
53.	Lot No.3: 3-D Scanner Tech Spec-Serial No.4.1		Refer Sr. No. 13 of Addendum/Corrigendum No. 1
	rech spec-serial No.4.1		Addendam/Corngendam No. 1
	Calibration system benchm	ark	
		oplicable to system measuring	
	by single part.		
	For multiple shot meas	uring system as per your	
		standard is VDI/DGQ 2634 Part	
F.4	3.		D. C. N. 40 C
54.	Lot No.3: 3-D Scanner		Refer Sr. No. 12 of
	Tech Spec-Serial No.4.1 Field of View		Addendum/Corrigendum No. 1
	Field of View		
	45 Field of View	45 x 38 x 30	
	75 Field of View -	74 x 62 x 45	
	250 Field of View -	260 x 215 x 140	
	500 Field of View -	750 x 630 x 500	
		d 500 looks wrng by industry	
	standards it should be arou	nd 480x 400 x 250 mm.	
55.	Lot No. 4 CNC wire cut		No amendment is considered necessary.
	Technical Specification: Se		
	U & V Axis Traverse , it is impractical & we feel that it should be less. Specifications are not correct.		
56.	Lot No. 4 CNC wire cut	is the not correct.	Refer Sr. No. 14 of
	Technical Specification: Se	rial No. 4.5	Addendum/Corrigendum No. 1
	Positional Tolerance		
E 7	+/-0.002mm or more per 8		26.00
57.	Lot No. 4: CNC wire cut Ele	ctricDischarge Machine	Refer Sr. No. 15 of
	Submerged type Page 104, SI.3		Addendum/Corrigendum No. 1
	Features: Fixed table, Movi	ng column machine	
	,		
	Please change to moving ta		
	Tender spec. is smaller vers		
	with moving table and fixed		
	amend as per our request f participate	or all manufacturers to	
58.	Lot No. 4: CNC wire cut Ele	ctric Discharge Machine	No amendment is considered necessary.
	Submerged tye AUR/P/004		The difficulties to consider ed frecessary.
	Page 104, SI.3		
	Feature: Tool confirms to IS	i: 14137 STD	
	For imported machine std. will be as international standard, JIS, ISO, DIN. Please change to IS std. (or)		
	standard, Jis, ISO, DIN. Plea	se change to is std. (or)	L



Sr. No	Query	Response of the Client
0.4.1.0	equivalent international standard	
59.	Lot No. 4: CNC wire cut Electric Discharge Machine Submerged tye AUR/P/004 Page 104, SI.3	No amendment is considered necessary.
	Feature: Wire Chopper	
	Remove wire chopper. Used brass wire is having resale value but chopped wire is not having resale value and that wire cannot reuse again that's why all OEM's are providing wire chopper along with machine for benefitting customer	
60.	Lot No. 4: CNC wire cut Electric Discharge Machine Submerged tye AUR/P/004 Page 104, SI.3	No amendment is considered necessary.
	Feature: Wire feed Wire spool capacity Min. 20 Kg to 30 Kg accordingly to DIN Std. K100, K125, K160 as well JIS P3 & P5	
	Wire spool, as per DIN std. K-125 is 3.5 Kg K-160 is 5 Kg P3 – 3.5 Kg P5 – 5 Kg	
	Please amend the min. wire spool cap. 3.5 to 5 Kg	
61.	Lot No. 4: CNC wire cut Electric Discharge Machine Submerged tye AUR/P/004 Page 105 Feature: Dielectric System	No amendment is considered necessary.
	Mineral bed filtration system along with paper filtration (inside out 10 micron paper filter)	
	Please amend paper filtration system of 5 micron paper filter. Mineral bed filteration is failure model.	
62.	Lot No. 4: CNC wire cut Electric Discharge Machine Submerged tye AUR/P/004 Page 107	No amendment is considered necessary.
	Feature:Technical data U-axis: 800 mm Minimum Z-axis: 550 mm Minimum	
	Please amend the spec. to U axis: 160 mm Minimum Z axis: 160 mm Minimum	
	Please note Axu. Axis will not travel as equal as X & Y axis.	
63.	Lot No. 4: CNC wire cut Electric Discharge Machine Submerged tye AUR/P/004 Page 107	No amendment is considered necessary.
	Feature: Taper angel per 400mm +/-45 deg	



Sr. No	Query	Response of the Client
	Please change the taper angle +/-30 deg/100 mm.	
	Normally all manufacturers are providing taper angle of	
	+/-30 deg/100 mm only.	
64.	Lot No. 4: CNC wire cut Electric Discharge Machine	No amendment is considered necessary.
	Submerged tye AUR/P/004	
	Page 108	
	Feature: 40 GB HDD for data storage	
	Diagon alguify if this hand disk is used as secondary	
	Please clarify if this hard disk is used as secondary	
65.	memory. LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	No amendment is considered necessary
05.	EOT NO. 3 . CNC JIG GRINDING MACHINE . AON, 17,003	No amendment is considered necessary
	UNDER FEATURES: - Point of HYDROSTATIC QUILL	
	guidance system.	
	Normally this kind of quill is not hydrostatic and	
	moreover hydrostatic guidance is not required.	
	Hydrostatic quill comes only with heavy load	
	requirements.	
	Normally it is hand lapped precision / mechanical bearing	
	with minimum run-out. Therefore please delete the	
	hydrostatic guidance system.	
66.	LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	No amendment is considered necessary
	LINEAR MOTOR FOR Z-AXIS.	
	This is a big disadvantage on a machine like Jig Grinding. Normally Linear Motors are used in case of high feed /	
	rapid rate and therefore does not fit in the specification	
	of Jig Grinder. The Z-axis is driven by high precision ball	
	screw. Hence kindly amend the linear Motor with Ball	
	screw.	
67.	LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	Refer Sr. No. 17 of
	500 000	Addendum/Corrigendum No. 1
	UNDER TECHNICAL DATA: Clause No. 4.1.	
	On one hand you ask for machine with size X-Y traverse	
	700 x 500 mm whereas separately for Y-axis travel you	
	ask for 600 mm against 500 mm.	
	Also please note the Vertical adjustment of grinding head	
	W-axis is 50% or less than Y-axis for stability	
	requirement. You have asked W-axis of 500 mm which is	
	almost 80% of the Y-axis. Therefore please replace W-axis	
	travel of 500 mm with 300 mm same in case of quill	
	travel replace 160 mm with 120 mm.	
68.	LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	Refer Sr. No. 18 of
		Addendum/Corrigendum No. 1
	Maximum Grinding dia. in planetary mode, do not	
	understand why it is 140 and why not 125 mm or 150	
	mm? The figure of 140 seems to be very specific hence it	
	to 120 mm.	
69.	LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	No amendment is considered necessary
	Food rate of II avis is 0.25 mm/min in the high are a "	
	Feed rate of U-axis is 0.25 mm/min is too high on a Jig	



Sr. No	Query	Response of the Client
31.140	Grinding and it should be 50% less i.e. 0.12 mm/min.	
70.	LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	No amendment is considered necessary
	, ,	
	Other minor deviations are normally acceptable on +/-	
	10% basis.	
71.	LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	No amendment is considered necessary
	Technical Specification Serial No. 3 features	
72.	Also machine should have capacity of hard milling LOT NO. 5 : CNC JIG GRINDING MACHINE : AUR/P/005	No amendment is considered necessary
12.	EOT NO. 5 : CNC JIG GRINDING MACHINE : AON, F, 003	No amendment is considered necessary
	UNDER TECHNICAL DATA: Clause No. 4.1.	
	Technical Specification Serial No. 4.1 Technical Data	
	Maximum Grinding Diameter in Planetary mode with	
	grinding motor in U axis in centre position in automatic	
73.	grinding mode Lot No.8 CNC Multi Axis Micro Machining Centre	Refer Sr. No. 19 of
		Addendum/Corrigendum No. 1
	We request you to kindly provide us the following	•
	accuracy as per VDI/DGQ 3441:	
	a) Positioning accuracy for X,Y and Z axis	
	b) Repeatability accuracy for X,Y and Z Axis	
	\ C : "	
74.	c) Spindle run out accuracy	Refer Sr. No. 20 of
/4.	Lot No.8 CNC Multi Axis Micro Machining Centre	Addendum/Corrigendum No. 1
	Tech specs: Sr.No 3 Basic Mhine / Features	Addendamy corrigendam No. 1
	, real operation of public mining, real area	
	Page No 139 5 th bullet all the three (X,Y,Z) axes should be	
	on the spindle , A,B,C should be on the table.	
	This does not fit in the existing nomenclature of machine	
	and should read as " machine should be equipped with	
	three linear axes in X,Y,Z with rotary axes (A,C) and swivelling spindle.(B axes)	
75.	Lot No.8 CNC Multi Axis Micro Machining Centre	No amendment is considered necessary.
. 0.	23130 and man man manining centre	The difference is considered freeessary.
	While going through your tender specification, we find	
	some of the features deviate from our machine	
	specification, like Z Stroke-300 mm in place of 400mm.	
	CNC Control BOSCH –REXROTH INDRAMAT	
	We wish to request you to revise the tender	
	specifications as per the above so that we may comply	
	with all of your tender specification and participate against this requirement.	
76.	Lot No. 9 CNC wire cut	Refer Sr. No. 21, 22 & 23 of
	Technical Specification: Serial No. 4.2	Addendum/Corrigendum No. 1
	Positional Tolerance	
	Positional Repeatability: +/-0.002mm or better	



97_00000000		D. C.L. C.L.
Sr. No	Query Resitional Assuracy L/ 0.002mm or better	Response of the Client
77.	Positional Accuracy: +/-0.002mm or better Lot No. 9: High precision CNC Wire cut electric Discharge machine submerged type BBS/P/004 Page: 145, SI 3	No amendment is considered necessary.
	Feature: SS Table suitable for mounting various type of job and four side table	
	Please amend as SS Table suitable for mounting various types of job & Three side (or) C type table. Please note machine column side all the wire guiding unit and pressure flushing unit will come.	
78.	Lot No. 9: High precision CNC Wire cut electric Discharge machine submerged type BBS/P/004 Page: 146	No amendment is considered necessary.
	Feature: Dielectric cooling unit integrated and minimum 8 Nos. filter used	
	Please change min. 2 nos. of filter used.	
79.	Lot No. 9: High precision CNC Wire cut electric Discharge machine submerged type BBS/P/004 Page: 147	No amendment is considered necessary.
	Feature: CNC Control unit feature max. programmable input for X, Y, U, V +/- 99999.999MM	
	Please request to change as max programmable input for X, Y, U, V +/- 9999.9999MM	
80.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type	Refer Sr. No. 24 of Addendum/Corrigendum No. 1
	S.I. No 3: Machine Tool Fixed table, moving column machine.	
	Please amend to Moving table, Fixed column machine.	
81.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type	No amendment is considered necessary.
	S.I. No 3: Machine Tool S.S. table suitable mounting various types of job	
	Not Complying. Hardened at 54 HRC and coated with chromium Universal clamping frame for best utilization of the	
82.	work zone Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC	No amendment is considered necessary



Sr. No	Quant	Response of the Client
31.110	Query Wirecut Electric Discharge Machine Submerged	Response of the cheft
	Type	
	1,750	
	S.I. No 3: Machine Tool	
	Machine Tool confirms to IS: 14137 standards	
	Not Clear. Please explain in detail.	
83.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC	No amendment is considered necessary
	Package 3,	
	High Precision CNC Wiscout Electric Discharge Machine Submarged	
	Wirecut Electric Discharge Machine Submerged Type	
	Туре	
	S.I. No 3: Machine Tool	
	Integrated collision protection for X, Y, U, V& Z Axis.	
	Not Applicable on this machine model.	
84.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC	No amendment is considered necessary
	Package 3,	
	High Precision CNC	
	Wirecut Electric Discharge Machine Submerged	
	Туре	
	S.I. No 3: Wire feed	
	Wire Spool capacity Min. 6 kg. to 25 kg. according to DIN.	
	DINStd	
	K100, K125, K160 as well as JIS p3 & P5.	
	Not clear. Please explain in detail.	
85.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC	No amendment is considered necessary
	Package 3,	
	High Precision CNC Wirecut Electric Discharge Machine Submerged	
	Type	
	1,100	
	S.I. No 3: Wire feed	
	Additional wire threading functions like Hole search	
	Not applicable on this machine model	
86.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC	Refer Sr. No. 21, 22 & 23 of
	Package 3,	Addendum/Corrigendum No. 1
	High Precision CNC	
	Wirecut Electric Discharge Machine Submerged	
	Туре	
	S.I. No 3: Axis	
	Positional tolerance for full stroke in each axis (max) +/-	
	0.002 mm per	
	Positional repeatability +/- 0.001 mm	
	Positional accuracies +/- 0.001 mm	
07	Tolerance with in 4 microns should be acceptable.	
87.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC	No amendment is considered necessary
	Package 3, High Precision CNC	
	THEIR FLECTION CINC	



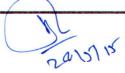
Sr. No Query Wirecut Electric Discharge Machine Submerged Type S.I. No 3: CNC - Control Unit Features Max. programmable input for X, Y, U, V +/- 99999.999 mm Not clear. Please explain in detail. 88. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Measurement Resolution for all axis: 0.0005 mm or Better Linear Glass scales for all axes with direct measuring system for resolution is 0.5 microns . Measuring resulation depends on the work piece surface. 89. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	ary
S.I. No 3: CNC - Control Unit Features Max. programmable input for X, Y, U, V +/- 99999.999 mm Not clear. Please explain in detail. 88. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Measurement Resolution for all axis: 0.0005 mm or Better Linear Glass scales for all axes with direct measuring system for resolution is 0.5 microns . Measuring resulation depends on the work piece surface. 89. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	ary
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Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Measurement Resolution for all axis: 0.0005 mm or Better Linear Glass scales for all axes with direct measuring system for resolution is 0.5 microns. Measuring resulation depends on the work piece surface. 89. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	a. y
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Measuring resulation depends on the work piece surface. 89. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	
surface. 89. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	
Package 3, High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	
High Precision CNC Wirecut Electric Discharge Machine Submerged Type S.I. No 4.2: Machine Tool Positional tolerance for full stroke in each axis: +/- 0.002 mm or more per 300 mm Positional tolerance for full stroke in each axis should be +/-0.004 mm.	
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+/-0.004 mm.	
+/-0.004 mm.	
THE TRANSPORT OF THE TR	051
90. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC No amendment is considered necess Package 3,	ary
High Precision CNC	
Wirecut Electric Discharge Machine Submerged	
Туре	
S.I. No 4.2: Machine Tool	
As per VDI/DGQ Standard	
Positional Repeatability: +/- 0.001 mm or better	
Tolerance for full stroke in each axis should be +/- 0.004	
mm.	
91. Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC No amendment is considered necess	
Package 3,	ary
High Precision CNC	ary
Wirecut Electric Discharge Machine Submerged	ary
Туре	ary
S.I. No 4.2: Machine Tool	ary
As per VDI/DGQ Standard	ary
Positional accuracy: +/- 0.001 mm or better	ary
	ary



Sr. No	Query	Response of the Client
	Tolerance for full stroke in each axis should be +/- 0.004	
	mm.	
92.	Lot no. 9 of ICB No. 21/TCSP/GOODS/P3/2015/TR/TC	No amendment is considered necessary
	Package 3,	
	High Precision CNC	
	Wirecut Electric Discharge Machine Submerged	
	Туре	
	S.I. No 5: Standard Accesories	
	Float Adjuster	
	•	
	Not clear. Please expain in detail.	
93.	Lot No 10: CNC 5 Axis Machining Centre	Refer Sr. No. 25 of
	Technical Specs	Addendum/Corrigendum No. 1
	Features	, ,
	Page no 153: feature –Tool holding suitable for tool	
	shank HSK A63/ ISO 40 with through air supply. Through	
	spindle coolant supply is standard next to this line you	
	mention.	
	Spindle tol adapting suitable for automatic tool change as	
	per HSK E-50. It should be HSK A-63/ISO-40/BT-40.	
94.	Lot No 10: CNC 5 Axis Machining Centre	Refer Sr. No. 31 and 32 of
	Technical Specs	Addendum/Corrigendum No. 1
	Features	
	Page No 156, Point no 4.1	
	Resolution X-Y-Z, 0.0001 minimum or better .it should be	
	0.001 minimum or better.	
	Point No 4.2 Main Spindle specifications. Resolution	
	0.0001 or better. Such point is not required in main	
	spindle specifications.	
	Page No 157 Point 4.6	
	Accuracy as per VDI DGQ 3441 standard .It should be ISO	
	230 or eqvivalent.	
95.	Lot No 10: CNC 5 Axis Machining Centre	Refer Sr. No. 33 of
	Technical Specs	Addendum/Corrigendum No. 1
	Features	
	Page No 158, Point No 5	
	Standard accessories	
	2 Nos of all adapters for both standard turning & milling	
	operations.	
	If it is 5 axis machining centre turning adapters are not	
	required.	·
96.	Lot No. 10 CNC 5 Axis Machining Centre	Refer Sr. No. 26, 28 & 29 of
	Technical Specification:	Addendum/Corrigendum No. 1
	Sr.o 2 : Application – Machine has been asked to perform	
	turning operations	
	Features-	
	Tool holding/ cutting tools must be abe to use standard	
	milling and turning tool holders .	
	Essential Features-	
	Milling tool spindle mechanical locking system for	
	turning.	
		L



Sr. No	Query	Response of the Client
	Query:	
	Please clarify if machine is required to do turning	
	application and has to be supplied with a turning table,	
	torque , table diameter etc.	
97.	Lot No. 10 CNC 5 Axis Machining Centre	Refer Sr. No. 27 of
	Technical Specification:	Addendum/Corrigendum No. 1
	Sr.No 2: basic machine and construction ;	
	Tender specifies machine with gantry type mineral	
	casting /polymer concrete.	
	3 , p - 1,	
	Query: We would like to incorporate the single piece	
	casting monoblock design with GGG60. This design offers	
	maximum milling performance and excellent accuracy	
	and with its extreme rigidity and stability.	
98.	Lot No. 10 CNC 5 Axis Machining Centre	Refer Sr. No. 30 of
50.	Technical Specification:	Addendum/Corrigendum No. 1
		The state of the s
	Sr.No 2: CNC System	
	Asked for RS232	
	Query: We offer machines that uses latest method of	
	data transfer by Ethernet , CF Card d USB. We would	
	request to kindly delete RS 232 (as the same is getting obsolete) and not preferred these days.	
99.	Lot No. 10: CNC 5 Axis Machining Centre BBS/T/005	Refer Sr. No. 25 of
33.	Page 153	Addendum/Corrigendum No. 1
	1 486 233	riddendam, damigendam var 1
	Features: Tool holding / cutting tools must be able to use	
	Please amend as below:	
	Spindle tool adapting suitable for automatic tool change	
100.	as per <u>HSK-A63 / ISO40 / BT40</u> Lot No. 10: CNC 5 Axis Machining Centre BBS/T/005	Refer Sr. No. 31 of
100.	Page 156 - Clause 4.1	Addendum/Corrigendum No. 1
		,
	Feature: Resolution X-Y-Z	
	Please amend as below: 0.001 minimum or better	
101.	Lot No. 10: CNC 5 Axis Machining Centre BBS/T/005	Refer Sr. No. 32 of
101.	Page 156 – Clause 4.2	Addendum/Corrigendum No. 1
	1 450 130 Clause 4.2	Addendary corngendari No. 1
	Feature: Main Spindle Specification Resolution	
	Please note such point is not required in Main Spindle	
	Specification. Hence we suggest removing the same.	
102.	Lot No. 10: CNC 5 Axis Machining Centre BBS/T/005	No amendment is considered necessary
	Page 157 – Clause 4.6	
	Factoria Accounts	
	Feature: Accuracy	
	Please amend as below:	



Sr. No	Query	Response of the Client		
	Accuracy as per VDI DGQ3441 or ISO 230 or Equivalent			
	Standard			
103.	Lot No. 10: CNC 5 Axis Machining Centre BBS/T/005	Refer Sr. No. 33 of		
	Page 158 – Clause 5	Addendum/Corrigendum No. 1		
	Feature: Standard Accessories			
	Please amend as below:			
	If it is 5-Axis Machining Centre then turning adaptors are			
	not required. Hence please amend as below: 2 No's of all adaptors for standard millingoperations			
104.	Q1 Will due date be extended?	Refer Sr. No. 34, 3536 and 37 of		
	Q1 Will add date be exteriord.	Addendum/Corrigendum No. 1		
	Q2 We request an extension of the due date for			
	atleast a month as necessary banking formalities			
	should be completed.			
	Q2 We request you to extend the due date for BID			
	submission till 15.07.2015, which enable us for			
	arranging the Bank Guarantee/EMD and other			
	technical details, so that we can submit our well			
105.	compliant and competitive offer/bid. Will scope of supply change after bid is submitted?	The scope of supply is clearly		
100.	will scope of supply change after bid is submitted:	stipulated in Section VII "Schedule of		
		Requirement"		
106.	Will there be a price negotiations due to change in	Refer ITB clauses 38 and 42		
	technical or commercial scope of supply	Notes to disable so and 12		
107.	We are subsidiary of Foreign Manufacturer and	Refer ITB clause 12, 14, 34.5 and SCC		
	dealing through FTWZ (Free trade warehousing	clause GCC 16.1 as well as Bid Data		
	zone) process as below:	Sheet (BDS) clause 14		
	 Machine made in Foreign Country. 			
	Currency will be in INR	Relevant Bid Form 4 to be used		
	 Payment through Inland LC 			
	 At FTWZ custom clearance we will be 	Refer Sr. No. 38 and 39 of Addendum/Corrigendum No. 1		
	needing the exemption certificate.	Addendam/Corngendam No. 1		
	This process also attracts 2% CST against			
	form 'C' from purchaser			
	Kindly clarify according to your price schedule under what price schedule it comes we feel it comes			
	under:			
	"3. Price schedule: Goods manufactured outside the			
	purchaser's country, to be imported(given in Page			
	No53)			
	Kindly confirm			
108.	Q. 1 Who will bear " Demarrage Charges" in case of	The purchaser will make all efforts to		
	delay from custom's authorities. Project Authority	issue Project Authority		
	certificate i.e Customs Duty Exemption Certificate is	Certificate/other certificate(s) within		
	requested to be provided two weeks prior to	reasonable time on receipt of request		
	dispatch. Will be intimated by the supplier.	and shipping documents from		
	0.20-1	supplier.		
	Q.2 Custom clearance has to be arranged by Bidder.			



Sr. No	Query	Response of the Client
	GCC is not clear on demurrage payment due to	No amendment is considered
	practical differences/delays. Who will be	necessary
	responsible for payment of demurrages?	
		Also, refer ITB and BDS clause 14.8
109.	Q1 For local purchase of accessories, necessary	Refer to ITB 12 and ITB 15 and BDS
	statutory documents should be provided such as	Clause 15.1
	road permit etc. Can this portion of the contract (in	
	INR) be placed on the local subsidiary separately as	
	an order?	
	O2 There are many equipment and accessories	
	Q2. There are many equipment and accessories	
	which could be purchase from India and same	
	cannot be quote in USD to avoid customs so we	
	request you to consider our partial proposal in INR.	
	Q3. With respect to the commercial offer, the local	
	supplies can be supplied in INR (from Indian	
	subsidiary) while the main systems are to be	
	supplied from Foreign Manufacturer.	
110.	Is withholding taxes applicable on foreign firm's and	Refer GCC clause 17 in this regard.
	will a TDS certificate be issued.	
111.	We request you to accept LD charges to be limited	No amendment is considered
	to a maximum of 5% of contract value.	necessary
112.	Warranty:	Refer SCC clause GCC 28.3.
	Foreign Manufacturer agrees to accept only one year	
	extended warranty beyond one year normal warranty.	
	However, They are ready to take AMC after completion of Warranty period.	
113.	Delivery:	Refer Sr. No. 43 of
110.	Foreign Manufacturer agrees to supply this machine	Addendum/Corrigendum No. 1
	within 24 weeks FOB only.	,
114.	Inland Freight and Insurance:	No amendment is considered
	Foreign Manufacturer will take responsibility of	necessary
	theconsignment up to nearest Indian seaport only.	
	Inland freight and Insurance up to Bhubaneswar have to	
	be arranged by purchaser.	



on 21.0	Attendance of Pre Bid Meeting of WES for supply of 10 lots of Machines and Equipments for IGTR Aurangabad and CTTC, Bhubneshwar, held on 21.05.2015, 3.00 PM					
S.No.	Name of the Organization	Name of the Representative &	E-mail Address, Fax, Mobile No	Signatures		
ą.	MILLEMIN MACCHEL (ND)A (D) LTD	Designation GANESH LARSHMANNA DIRECTOR/COUNTRY HEA	a ganesh lakshmanan	ljah.		
ton	1-PM Technologies	ANIL GUPTA-CEO ADVIVA GOEL	anilgupta@apmtechindia. 98101-19096	com Mulgope		
3	GF Banga	S.P. THAKUR S Molha	Spt@moefod ca 9820874280	Be		
	CAROLO POPO	NICKUNT SHAH CMD + RCBINDRANATH SCM)	nickingshah (*) nickingstoup 9921014411	95		
5		MRIShairdh Chagaer mic torts Pital Pune	Mr: 8hailch & Chryster 100 n	, Me_el		
2	HAAS Factory autlet CHC Servicing & Solution (1) Put. 15th	Ashish A-Chikhale DGM Federal	achikhale aphillipscorp. com.	prehithale		

	Attendance of Pre Bid Meeting of NCB for supply of 10 lots of Machines and Equipments for IGTR Aurangabad and CTTC, Bhubneshwar, held on 21.05.2015, 3.00 PM				
	Name of the Organization	Name of the Representative & Designation	E-mail Address, Fax, Mobile No	Signatures	
z_j .	EUS Combil Forder Office 36, Sivermonda Hayan Co Collier, Chicapore - 78.	Prakasan Award Country Manager.	98400 33223	f = 1	
0	pesiphon Syn 160 Delai B	Veegey Kapie	derighty . un		
6	Remothana Mothology Systems Utd.	Sanjay Sangan	Sanjay. Sangam @ renishaw.com 9845015275	Alle.	
(10)	Designech Systems Lla	Yashwant Landge Cuy	yashwant.landge@ designtechsys.com 9370147564	brez.	
įžD	3D Govgineering	RAHUL Sanap	98230-21998	8	
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Attendance of Pre Bid Meeting of NCB for supply of 10 lots of Machines and Equipments for IGTR Aurangabad and CTTC, Bhubneshwar, held					
on 21.05.2015, 3.00 PM					
S.No.	Name of the Organization	Name of the Representative &		Signatures	
		Designation	Mobile No		
13.	RAWAS	DHARENDERLUR	dk.vasdev@francis		
15.	ONA Electronimi	Mand Saley	Hein, in	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
	SA Speini 13		9312070517	. 0	
4.1	Maco Corporation (I) Put Utd.	A K Verma	akverma @ macocox	beration. Com	
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	Merchany 41 Utal	Surject Sigh Negi	9958617733	AN	
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	16	@ codensworth.com			
	100	Makesh know ecodensi	ofter con		
	WANEZ ZIMBU	MAE CONOM		,	
19	ABROITEC	manoj jain @ admitecujo.com	9911211065	100	
18.	Roug Chadhe	Roby Chadag Empire Maeli re 1504, Delli:	9818290376	ly	
	18	-		<u> </u>	

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	Attendance of Pre Bid Meeting of NCB for supply of 10 lots of Machines and Equipments for IGTR Aurangabad and CTTC, Bhubneshwar, held on 21.05.2015, 3.00 PM					
	Name of the Organization	Name of the Representative & Designation	E-mail Address, Fax, Mobile No	Signatures		
19	EST Engineras Pot	SANTOSH MILYRA Sv., Mgr.	Santoshmisher @ Stengineers. eom 9311131778	Landor M. C.		
24:	Marenic Solution Inc 20	ANKUR JAIN Techno Commercial Managan	0 1811507940	Snkg		
	11	ANUI KUMON Director	anusa majaicsolution. Gen 9818209042	Anka		