



MINUTES OF PRE-BID MEETING

Name of Work: Interior works (Civil, Electrical, HVAC, Light & Sound, Fire Fighting etc.) in Rajasthan International Centre, Jhalana Doongri, Jaipur.

1. NIT, of Engineering Procurement and Construction (EPC) tender of "Interior works (Civil, Electrical, HVAC, Light & Sound, Fire Fighting etc.) in Rajasthan International Centre, Jhalana Doongri, Jaipur" was issued on 03/06/2021 with pre-bid conference to be held on 29.06.2021 at 12.00 PM in "MANTHAN" hall of JDA. The bids are uploaded on website on 05.06.2021. The last date of submitting the tender online is 26.07.2021 up to 6.00 PM. The tenders (technical bid) shall be open on 28.07.2021 at 11.00 AM in Executive Engineer office. Following are proceeding of pre-bid conference.
2. Pre-bid conference was held on 29.06.2021 in 'MANTHAN' hall of JDA, which was attended by officers of JDA and prospective bidders as per attendance sheet enclosed at Annexure-1.
3. With the permission of the chair, the pre-bid meeting was started with the welcome note by Director Engineering-I briefing about the project, scope of work, technical parameters, specifications etc. It was also clarified to the prescriptive bidders that the BOQ attached with the tender document has been provided for reference purpose only.
4. After briefing about the project, the pre-bid queries were started to be made by the participants representing their organization/firm. The queries made and decisions so given are as follows which will become the part of tender document

S.No.	Name of Firm	Query	Reply
1.	M/s SRISHTI ENTERPRISES	<p>(1)SPECIAL CONDITION OF THE CONTRACT FOR CONTRACTORS (Criteria)</p> <ul style="list-style-type: none">• Since the component of stage lighting and furnishing is very technical in nature and is of substantial amount and hence should be incorporated in the definition of similar nature of works. Also the work of murals which has been made part of definition of similar nature of work should be removed since it is normally an outsourced item. Also, since technology of audio video and stage lighting become obsolete in around 5 years, hence the completion certificate should be for the works executed in last 5 years instead of 10 years.	<ol style="list-style-type: none">1. Stage Light and Stage Curtain is a specialize item which usually out source hence it is not part of the general criteria.2. Construction of mural is also specialize item and may not be considered a part of the general criteria of experience.3. Provision of 10 years' experience be maintained.



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		<p>The revised Criteria should be as below :- (a) The bidder should have completed/executed similar nature Interior works including False Ceiling, wall paneling, Acoustic Work, Flooring Work, stage lighting and furnishing, Electrical work (Fire Fighting, HVAC, Audio & video system etc. in last five (5) financial years (including current year, if opted by the bidder, as under</p> <ul style="list-style-type: none">• Since for a work of magnitude of 47 crore, experience of Three similar works each costing not less than Rs. 10.00 crore or four similar works each costing not less than Rs. 8.00 crore are not relevant because of extremely low value and should be deleted. <p>The revised Criteria should be as below:- One similar work costing not less than Rs. 23.00 crore or Two similar works each costing not less than Rs. 13.00 crore.</p> <ul style="list-style-type: none">• Since the work pertains to convention center/auditorium which have very specialized type of requirements with regard to acoustics, audio, video, stage lighting and furnishing, the bidder must have executed similar types of work in convention center/auditorium instead of "Hotel 3 star and above, Airport Project, Institution Building, shopping mall, Office complex, Auditorium, Theatre, Sport Complex etc." Also, since this project is of Grand Scale with height of the false ceiling and wall paneling upto 70 feet, hence the bidder must have executed works of this must scale like: The bidder must have executed one composite work of Convention Center/Auditorium as per definition of similar nature of work of 2000 seats or two works of 1500 seats or three works of 1000 seats. (Pre-bid Criteria of tender of Multipurpose Hall at Punjab University, Chandigarh is attached for your ready reference. <p>The revised Criteria should be as below :- (iii) If bidder is submitted certificate having different components/nature of work then proper completion certificate of required similar nature in Convention Center/Auditorium experience is to be enclosed. The bidder must have</p>	<p>No Change</p> <p>No Change</p>

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		executed one composite work of Convention Center/Auditorium as per definition of similar nature of work of 2000 seats or two works of 1500 seats or three works of 1000 seats.	
		(2)SPECIAL CONDITION OF THE CONTRACT FOR CONTRACTORS (IN CASE OF JOINT VENTURE) There are a lot of bidders in India who are qualified for the work mentioned in the subject as per the detailed pre-qualification criteria as above, hence joint venture or consortium should be discouraged, since in JV, expertise of any specific component like acoustics, audio, video, stage lighting and furnishing & HVAC is not in one of the partner's domain, hence in case of dispute between the partners in JV, the whole project suffers. In the light of above facts, joint venture or consortium should not be allowed.	No Change
		(3)Makes of stage lighting : Since the approved makes are foreign brands and there are a lot of problems of import because of Covid-19 and also to push the Government initiative of Make in India, some very reputed Indian makes like Effectron, Modren Stage Service, Canara Lighting etc should be added in the approved list of makes. Also, the approved foreign brands have very few installations in India Also, since you have already mentioned in the tender document that Indian products should be installed as much as possible, hence all the foreign brands in the stage lighting should be removed from the approved list of makes. (Technical Catalogs of Effectron, Modren Stage Service, Canara lighting are attached)	Make:-Sholite/OSRAM/ ADB/Claypaky
		(4)Makes of PA System (Audio) Since the approved make are not very prevalent brands in India and have very few installations, hence makes like Electro-voice and JBL which have strong after sale service support in India should be incorporated in approved list of makes.	Make:- Community, Martin Audio, Renkus-Heinz, JBL, BOSE
		(5) Makes of Furniture	



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		Since only one make i.e. Godrej have been approved, it will lead to monopolistic practice. Hence equivalent makes like Penworker, Krishna Quinette Wipro etc must be approved for better competition. (Technical catalog of penwork is attached)	The specifications taken are of Godrej models. The approved make will be Godrej, Figueras, Aresline as approved by Competent Authority as per tender document.
		(6) Makes of Carpet Since Unitex has stopped manufacturing carpets and hence only one make i.e. Flotex is left which will lead to monopolistic practice. Hence equivalent makes like Welspun, Ege, Interface etc. which are world renowned brands must be approved for better competition. Also, the specification given in the DNIT pertains only to Flotex and no other make in the world matches the same specifications, hence more generic specifications of carpet should be framed.	Flotex, Carus, Beauliev with same specifications as approved by Competent Authority as per tender document.
		(7) Escalation Because of Covid -19, there is a lot of fluctuations in the market rate of various items and there is almost 30% increase in the prices in the last three months. Since the project duration of this work is 18 months, there should be a provision of Escalation as per the CPWD Guidelines.	No escalation is permissible as per the Tender Conditions.
2.	Anurag Enterprises	1) PPC Cement as per CPWD for both RCC & other works be allowed.	Tender conditions to be followed.
		2) Cement makes of Shree/Ambuja/Birla/ Binani/Prism may please be allowed.	Tender conditions to be followed.
		3) Escalation clause with basic rate of Cement & Steel may please be provided.	Tender conditions to be followed.
		4) Completion period should be 24 months instead of 18 months.	The work is strictly to be completed in 18 months. Tender conditions to be followed.
		5) Mobilization advance & Secured advance shall be allowed or not.	Tender conditions to be followed.
		6) Security deposit shall be substitute by Bank guarantee'	Tender conditions to be followed.
		7) NOC shall be in the scope of JDA or Contactor.	Tender conditions to be followed.



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3.	M/s Som Projects Private Limited	1) Kindly Provide List of approved agencies for Mural	On part of bidder
		2) Kindly Provide Furniture Drawings (Conference Table, Reception Counter, Office Table etc)	Already Provided.
		3) Para 5.5.9 Page no. 180 Specify scope of sanitary fixtures & fittings. Also at Page no. 221 DLP for five years for sanitary work is mentioned. There is no item in indicative BOQ, No breakup in payment schedule. Also There is no drawing issued for sanitary work. It is requested to clarify the scope of sanitary work.	Toilets were constructed few years ago and require repairs and upgradation. The bidder should assess the amount of work required to make the toilets impressive and functional.
		4) Staff to be deployed is mentioned on Page no. 65. It may be clarified whether operation & maintenance is to be done for five years apart from Defect Liability of five years.	DLP will be valid for 5 years for maintenance, operation is not part of scope.
		5) There is no detail in payment schedule during maintenance period for five years. How these staff will be compensated for their work.	DLP should be in the scope of work of bidder maintenance period is as per DLP period.
		6) The Operation & Maintenance period of 5 years of the completion of work is very long as such escalation for labour should be made operational.	No Change
		7) For following items only one brand is given at page no. 148 i. False ceiling (Sr. no. 73) ii. Furniture (Sr. no. 81) iii. PVC Laminates (Sr. no. 83) This is against CVC Guidelines. It is requested to provide additional Brand names to maintain competition.	Following brands are recommended: - (i)For gypsum board False ceiling :- Saint gobain, Boral The False ceiling frame work should also be carried out from the same manufacturer. (ii)Furniture :- Godrej, Figueras, Aresline (iii)PVC Laminates :- D-Stona, Aica India
		8) Time to start work from issue of work order is 10 days in Schedule-F, Page no. 10 on Tender Notice where as it is 15 days in Schedule-E (Time of completion) under schedule & specification Page no.-40. Discrepancy may be rectified.	10 days from the date of issue of work order.



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4.	DHIPL PROJECTS PVT LTD	1) Required AutoCad dwg for Quantification.	All autocad drawings uploaded with corrigendum D-146 dated 07.07.2021
		2) Required Basic Cost of Material Or Detail shade of Material like marble , Granite, Laminate, Veneer	Concerned drawings to be referred. Sample to be got approved from Engineer-in-Charge/consultant.
		3) GST % i.e. 12% or 14% - on the bais of Which Circular No.	As per applicable GST rules.
		4) What taxes will be deducted from Bill like Cess will be deducted or Not? And what will be the Percentage?	Income Tax = 6% Security Deposit = 3% SGST = 1% CGST = 1% Cess = 1% Royalty = As per option (as per order of mining department)
		5) Payment and Bill Cycle and criteria to submit bill (value wise).	Tender condition to be followed.
		6) PBG/EMD- It will be from Nationalised bank or Private bank.	All schedule banks
		7) Payment stage-as given 1% of certain area will be released after completion of total work, if it is 50% complete , 50% payment will be released or not ?	As per tender condition.
		8) Variations upto 2% of contract value no additional cost shall be payable- item wise or section wise considering the revised BOQ or given indicated BOQ. If it is 5% increase then what % will be paid and if it is decreased then what is the criteria?	Quantity given in the tender are indicative. The actual quantity have to be carried out by bidder if there would be any change in the drawing and design then upto 2% variation shall bear by bidder, variation beyond 2% will be paid as per bid document.
		9) Any special requirement for any other insurance Except two mentioned in Tender Document. As per Pg no. 217.	Tender condition to be followed
		10) After L1 what will be the criteria of Negotiation or no negotiation is there.	As per rule no. 69 of RTPP rules 2013.
		11) In indicative BOQ if there is no item or section for any category in MEP/Interior, we have to consider or not? For Example there is nothing mentioned about Softscaping, we have to consider or not?	Follow the drawings and scope of work in bid document.



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S.No.	Name of Firm	Query	Reply
5.	M/s StudioXP Roots Design	HVAC Work <ol style="list-style-type: none">1. Pl provide HVAC Specification.2. List of Makes to be considered is required for all items.3. Static Pressure & Coil Row of Dx AHU is not mentioned in BOQ, pl provide the same.4. Pl confirm size of diffusers (BOQ Item No. 10.3 & 10.4). also confirm damper shall be in GI or in Aluminum5. Pl mention size of cable tray (Ref BOQ item No.12).6. Pl confirm length of exposed piping over UV treatment/Paint is required (Ref. BOQ Item No 13.1)7. Pl Provide complete Specification of panel for VRF units.8. Starter Panel & Cabling for AHU and Ventilation units are not given in BOQ	<ol style="list-style-type: none">1. HVAC Specification shall be as per BOQ only2. List of make attached separately3. AHU Static Pressure - 50 MM Minimum and 4 row coil depth for AHU application, for TFA application coil row shall be 6 row depth4. Size of diffusers are 300MM X 300MM, and 450Mm X 450MM as per our layout , damper shall be in GI only5. Cable tray size 300MM wide6. UV Treatment piping length (750 RMT)7. We shall provide electrical load of VRV equipment and panel with MCB, ELCB has to be design by electrical vendor.8. BOQ is only for reference purpose. Work to be done as per the drawings.
		Civil Work <ol style="list-style-type: none">1. Loose Furniture - Convention hall, Centre Lobby, Restaurant & Library are is our scope or not.2. Art work is our Scope or not3. As per drawing no -20/170 showing 16 mm Italian marble in lift lobby cladding but item in not BOQ4. BOQ item no 13 -Armstrong Channel perforated panels of width 192mm, thickness of 15mm and length 2400 mm But drawing no-17/167 showing panel size -128mm thickness of 15mm and length 2400 mm5. As per drawing no -22/172 showing 15mm Gyproc paneling but item in not BOQ6. As per drawing no -23/173 showing 6mm thick korain Cladding work but item in not BOQ	<ol style="list-style-type: none">1. Not in Scope of This Tender.2. Mural and other Art Work are all part of this tender.3. Specification amended. D-Stone PVC Sheet to be used as per Architect's approved shade and design on all lift claddings.4. Sizes as per Manufactures detail to be followed but site adjustments to be made in dimensions as per site conditions and Architects site instructions.5. Follow the drawing. (Qauntity considered in Ceiling Item)6. Follow the drawing. (Refer item no. 36 of BOQ)



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		7. As per drawing no -25/175 showing 32mm thk Hdf pelment work but item in not BOQ	7. Follow the detail suggested in the drawing. (Quantity considered in Partiton paneling work)
		8. As per drawing no -26/176 showing 300mmX2400mm X57mm but item in not BOQ	8. Follow the specifications of BOQ (This item is similar to Baffel ceiling therefore considered in BOQ of Baffel ceiling item)
		9. As per drawing no -26/176 showing 4mmthk Acrylic sheet but item in not BOQ.	9. Follow the drawing.
		10. As per drawing no -29/179 showing Gyproc False Ceiling it is gypsum ceiling or POP Ceiling	10. Gypsum Ceiling
		11. Restaurant Area Out side Landscape and civil work is our scope or not	11. In the scope of This tender.
		12. A per Boq item No 31 Microlook Lay-in Standard Perforated metal ceiling consisting of 600x1200mm (Nominal Size) is ceiling work But drawing no -30/180 is showing column cladding work please clear item.	12. The ceiling material is also being used on Column Cladding.
		13. As per drawing no -41/191 showing Stretch ceiling but item in not BOQ	13. Stretch Ceiling desing as suggeted in drawing to be followed.
		14. As per drawing no -41/191 showing chandelier but item in not BOQ	14. Not in Scope of This Tender.
		15. As per drawing no -52/192 showing Sidling Glass door but item in not BOQ	15. Glass openable doors are proposed. Refer the drawings.
		16. As per drawing no -55/215 & 67/227 showing tile Size -1200mm X 1200mm but BOQ item no -73 showing is size 600mm X600mm & 900mm X900mm	16. Refer the drawings and corrigendum.



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		Fire Fighting 1. Rubber below is missing in BOQ for Pump suction & delivery. 2. Fire Alarm Valve is missing in BOQ for Sprinkler line. 3. Provision of Sprinkler Drain Valves are missing. 4. Rosette cap for Pendent sprinkler is missing. 5. Flow Switch is missing in BOQ for Sprinkler line 6. Which pipe is to be used in submersible type dewatering pump?	1. BOQ is only for reference purpose. Work to be done as per the drawings. 2. BOQ is only for reference purpose. Work to be done as per the drawings. 3. BOQ is only for reference purpose. Work to be done as per the drawings. 4. BOQ is only for reference purpose. Work to be done as per the drawings. 5. BOQ is only for reference purpose. Work to be done as per the drawings. 6. As per Drawings.
		Electrical, CCTV, FADS, PA 1. All conduits for point wiring are normal PVC conduits not even FR - Is it fine as per fire norms 2. List of make of all items to be shared 3. Location of DG, Transformer and all panels is required. 4. Make of all equipments are required 5. Make of Fire extinguishers is required 6. Make of CCTV and other related equipments 7. make of networking solution 8. UPS and batteries make is required 9. LMS make is required	1. Conduiting to be done as per fire norms. 2. As per attachment 3. DG sets and Transformers are not part of the work. Locations of panels are as per drawings. 4. As per attachment. 5. As per attachment. 6. As per attachment. 7. As per attachment. 8. As per attachment. 9. As per attachment.
		Auto Cad drawings of all areas is required along with complete floor plans	All autocad drawings have been uploaded with corrigendum vide no. D-146 dated 07.07.2021
		Scope of works clarity area wise specifically basements, mezzanine, Kitchen, washrooms	Kitchen furnishing and equipment's are not in the scope of work. Mezzanine to be finished with kota stone flooring, Painting etc. for



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			installations of AHU's and Stores. Washrooms- Toilets were constructed many years ago and require repairs and upgradation. Instructions of consultant architect and site engineer to be followed.
		Plumbing - as per BOQ and as specified during pre bid no plumbing works to be considered. Based on site visit we have not found any operational plumbing pump room. In BOQ also the Pumps are considered for fire pump room. Need advise are these pumps sufficient for all watertanks and plumbing high side operations.	All plumbing works and toilet fixtures to be re checked and to be made functionally operational in all respect including replacement of defective items. Contractor to carried his own inspection and assessment. All water tanks UG and Overhead, all fire tanks to be completed and energized with all necessary plumbing and electrical work along with necessary pumps.
		Clarity on external glazing and windows	Not scope of this tender
		External area scope of works if something we need to consider in our scope	Only terrace landscaping provided on second floor to be considered with artificial grass and potted development as per design. Follow consultant Architect Instructions. All other terrace and open areas may be provided with heat resistant tiles as provided in the tender.
		As per BOQ only counters, reception table, Office table, conference table and Audi Chairs are considered. Need clarity on all other loos furniture, chairs etc.	No other loose furniture is part of this tender.
		MS support details on the PT slab to support all services is required. Also there are no marking at site on the PT slab which will be required.	The contractor has to carry out this work with technical assistance of his own staff and engineers. Necessary structural drawings will be made available.
		Details / Drawings of Dismantling / Civil works left out at site	Site instructions of consultant architects and EIC to be followed.
		Landscape details of Terrace along with restaurant are required	Terrace landscaping provided on second floor to be considered with artificial grass and potted development as per design. Follow consultant Architect Instructions.
		Section I : ITB Point 1.4.1 As per the details private entity registered under companies act are eligible. We are a Pvt. Ltd. Company under the companies act 1956. Hope this is fine to full fill this criteria.	As per tender condition.



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		Section I : ITB Point 1.4.2 JV is allowed - We have two companies with same directorship and both are Pvt. Ltd. companies. We will be submitting the tender as JV in the form of MoU between both the companies and the GST and PAN of JV will be submitted. Hope this is fine and in line with the requirement.	Please follow JV rules as mentioned in tender document. Clause 1.4.2 of ITB
		Bid Capacity In Bid capacity formula A is referred as Maximum value of Civil engineering works - Is this the total amount of work done in any one financial year? What supporting documents are required for the same. We will be submitting the audited balance sheet showing our turnover in one financial year. Hope that is fine.	As per tender document Special Condition Clause 2(e)
6.	Effectron Luminex Limited	Since it is a very technical project and only those bidders who have in house team of acoustics. AV, electrical, stage lighting and furnishing, HVAC firefighting etc., should be allowed to bid for this work and hence clause of JV should be deleted.	No change
		As per PQ Criteria, you have asked that bidder should have experience of making Murals which is not technical a nature and is generally a brought-out item and hence should be removed from the PQ criteria. Also, the bidder should have executed all the components as per definition of similar nature of works i.e. acoustical interiors including false ceiling, wall paneling, acoustic works, flooring work, electrical work (firefighting, HVAC, audio/video system) in a single composite work since only these type of bidders have in house team for all the above activities and have a proven track record to handle these types of highly technical jobs.	Similar Nature of work stated at page no. 41 Special Condition of Contract Clause 2(a) "The bidder should have completed/executed similar nature Interior works including False Ceiling, wall panelling, Acoustic Work, Flooring Work, Mural Work, Electrical work (Fire Fighting, HVAC, forced ventilation, Audio/ video system etc. in last ten (10) financial years (including current year" will now be read as "The bidder should have completed/executed similar nature Interior works including False Ceiling, wall panelling, Acoustic Work, Flooring Work, Electrical work (Fire Fighting, HVAC, forced ventilation, Audio/video system etc. in last ten (10) financial years (including current year"
		As per PQ criteria, you have asked for experience in similar nature of work for hotel 3 Star and above. Airport Project, Institution Building, shopping mall, Office Complex, Auditorium, sports complex etc. which does not fit in	Stage Light and Stage Curtain is specialize item which usually outsource hence it is not part of the general criteria.



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		the nature of work to be carried out in Rajasthan International Convention Centre which is a very technology driven grand building with a huge auditorium, atrium, exhibition hall etc. and to work at these huge heights need a lot of expertise and proven track record of working in huge auditoriums/convention centers which is missing in 3 star hotels, institutions buildings, shopping malls, office complex etc. Hence the bidder must have executed the similar nature of works in auditorium cum convention centre, airports and sports complex only.	
7.	MACRO ENTERPRISES	<p>Commercial query</p> <ol style="list-style-type: none">1. Please explain payment process and what is the processing time required to clear our Ra bills & Final Bills2. Please share the BG Format for EMD3. Please clarify whether there is mobilization advance against BG4. Please clarify whether we can get secured advance against materials5. What is the requirement of insurance CAR Policy etc.	<ol style="list-style-type: none">1. Not applicable2. Page no. 6 (Bid Declaration)3. NO4. As per PW&FR (Rajasthan Government) Clause 15 page no. 234 of tender document5. Applicable as per tender document
		General query	
		As this is a EPC Mode of contract in lumpsum ,we kindly request you to clearly define our scope of works Floor wise/Block wise so that bidders can understand better as tender BOQ and Drgs can be interpreted in many ways and it may lead to misunderstanding/ confusions later and hence please put it as a separte documents from basement to roof top floor and also Please clarify the missing civil works E.g Block work, RCC Ceiling, Platering works, Bore well/Toilet works etc as it cant be open ended	As per scope of work at clause 5.4 page no. 62 of tender documents and also follow drawings.
		Please Share in Auto-Cad Format Drawings for Civil, Flooring, all Elevation Details of Wall Paneling, and all MEP drawings like basis of design HVAC, Electrical, AV, Sound, FAS, FPS etc.	All autocad drawings uploaded with corrigendum D-146 dated 07.07.2021
		Please define Our scope of works is basement floor I & II	Electrical work of both the basements including lights and force ventilation must be checked thoroughly by the bidder and it should



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			be make functional and operational. If required the fitting and equipment's may be replaced. Both the basements require repainting. The drainage from the basement should also be checked and make functional.
		Please provide us FINISHING SCHEDULE location wise, enabling us to understand the finer details better	Please refer the drawings
		What Happen if new items have to be done for the project at a later stage as per site condition or change of design by Architect	There is provision in tender to pay for extra item as per clause 49 " change scope of work", at page no. 247 of tender document
		Please clarify the furniture scope of the tender as there are chairs/sofa/workstation etc is the view not in BOQ	No loose furniture is part of the tender except the auditorium chairs.
		The estimate cost is very low as you have based your costings on BSR and BSR rates are always lower but curenlyits & irrelevant due to exhorbhitant cost escalations happened due to the pandemic & logistic disruptions globally and all materials rates are changing unpredictably and requesting to consider GST extra from the tender rates as GST alone is 7 crores	Bidder should assess his own cost as per the scope of work given in the drawings and BOQ and prevailing market condition and the rates available locally in Jaipur. Bidder should calculate all over heads as per site conditions including the scaffolding, labor hutments and their office expenses.
		All OEM'S of AV/HVAC/UPS Etc not giving 5 years warrenty and hence requesting you to make a seperate line items in the tender like AMC Charges for 2nd/3rd/4th/5th years etc. as its a cost after project is over and need not be loaded into the project cost itself, and sepearting it will make bids competitive.	DLP will be valid for 5 years for maintenance, operation is not part of the scope of work..
		B-Block Atrium area OTS-Ceiling, please clarify the details.	Follow the drawings
		Armstrong ceiling, Acoustic wall Panelling, Laminated wall panel etc., Please provide in the make list approved eqvt Since there is consolidation in the false ceiling acoustic sectors and now all the 3 brands like Armstrong,USG,AMF are the under a single ownership and they will not come down in price if it is singly specified. Also, for furniture please provide Godrej or any other BIFMA Compliant standard make	As per attached list.



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		Please clarify Kitchen Scope of work and 3rd floor roof top work water tank is there what is our scope of work, and also clarify our scope of work at basement 1 & 2	Kitchen is not in scope of work. All water tanks UG and Overhead, all fire tanks to be completed and energized with all necessary plumbing and electrical work along with necessary pumps.
		Please clarify whether Lift work, DG set, outdoor of Landscaping works, External glazing and polymer windows	Not in scope of this tender
		Please provide the basalt stone fixing details in the stair case, like steel frames etc.,	Find with attached drawings.
		On HVAC Basis of Design, please give the temperature requirements in Degree celcius or Farenheit and Areas in the Bldg where Airconditioning is required, which is much better, as BOQ has very little relevance in EPC mode and the end results what you intent to have is more important and hence pls state your temperature requirement and locations where reqd in the Text documents that you are providing.	As per Attached List of makes.
		Carpet-Unitex is presently not making the carpets and provide alternative makes.	As per the attached make list
		Please add Approved Eqvt in makes list	As per the attached make list
		Services work make of materials list required	As per the attached make list
8.	GODREJ & BOYCE MFG CO LTD	Liquidated damages Not mentioned in prevailing tender documents	Clause 2 of Tender condition of contract at page no. 141 of tender document.
		DLP Clarity We propose you to kindly consider 1 year DLP period as per standard practise and the additional 4 years as O&M period.	DLP will be valid for 5 years for maintenance, operation is not part of the scope of work..
		Payment Terms- Milestones Reduce milestones of payments	No change
		Performance Guarantee Not mentioned in prevailing tender documents	SD is applicable as per rules

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S.No.	Name of Firm	Query	Reply
		Approval of Final Payment we propose 60 days for certification + payment to contractor	As per rules.
		Extra Items Not mentioned in prevailing tender documents	There is provision in tender to pay for extra item as per clause 49 "Change of scope" at page no. 247 of tender document.
		BOQ Excel File We request you to provide the excel format BOQ for our working	Quantities supplied are only indicative, contractor to assess his own quantities and items.
		Scrap and Excess Materials Not mentioned in prevailing tender documents	All debris and left over materials to be cleared from the site before handing over of the work.
		Arbitration We would seek clarification to understand venue, cost how it will be apportioned? Period of arbitration	Special Condition of Contract RTPP Annexure C, at page no. 217 of tender document.
		Mobilization Advance we would request you to kindly consider Mobilization Advance 10% against Bank Guarantee	No mobilization advance.
		Scope of work We request you kindly clarify the detailed scope of work for us to consider and qoute	clause 5.4 at page no. 62 of tender document and as per drawings.
		Auto Cad Drawings We would request to kindly provide us with autocad drawings for detailed working on the project	All autocad drawings uploaded with corrigendum D-146 dated 07.07.2021
		Limitation of Liability clause We Propose- Limitation of Liability: Neither Party shall be liable to the other Party for any loss of profit or revenue (whether direct or indirect), loss of opportunity or loss of goodwill, and/or any indirect, special or consequential loss of any kind arising out of or in connection with this Agreement, whether in Contract, tort (including negligence), equity, under statute or otherwise, notwithstanding that it had been informed or had notice (whether actual or constructive), or had contemplated or foreseen the	As per tender conditions



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S.No.	Name of Firm	Query	Reply
		possibility, of such loss or such loss results from supervening events or circumstances after the signing date. Any liability of a Party under or arising from this Agreement shall be reduced proportionately to the extent that any act or omission of the other Party or its employees, agents or representatives contributed to such liability. The maximum liability arising out of this Agreement on Design & Build Vendor shall not exceed the total contract value.	
		Termination clause Termination: Design & Build Vendor may terminate this Agreement in case there is a delay in payment by the employer which is not rectified within 15 days of notice or in case the employer breaches any provisions of the tender document.	As per Tender Conditions
		Dispute Resolution Mechanism clause Dispute Resolution Mechanism: Any dispute arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration in India in accordance with the Indian Arbitration and Conciliation Act 1996, and Rules framed thereunder for the time being in force, which rules are deemed to be incorporated by reference in this clause. The Tribunal shall consist of one (1) arbitrator. The language of the arbitration shall be English.	As per Special Condition of Contract RTPP Annexure C at page no. 217 of tender document.
		Courts of Jurisdiction clause Courts of Jurisdiction: The courts of Mumbai shall have exclusive jurisdiction for all matters arising out of this Agreement.	Jaipur
		HVAC - Block A, B, C	
		Required PUFF Panel Thickness & static Pressure	AHU Static Pressure - 50 MM Minimum and 4 row coil depth for AHU application, for TFA application coil row shall be 6 row depth, 25mm PUF panel thickness
		Required Size of Cable Tray.	300mm Wide
		It should be with Cover or without cover?	without cover , but with supporting stand



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S.No.	Name of Firm	Query	Reply
		Required Qty. of exposed copper pipe.	750 RMT
		Required Power panel SLD.	As per Drawings
		Required Qty. of Power Cabling from Panel to equipment	1000 RMT
		Ventilation	
		Required Static Pressure	upto 1000CFM static is 15mm Wg >1000 will be cabinet inline with 20mm Wg
		Required PUFF Panel Thickness	25 mm PUF Panel thickness
		BLOCK - A VRF Equipment Suggested make:- Daikin, Hitachi, LG Kindly confirm	Daikin/Mitsubishi/Voltas/Hitachi
		BLOCK - A Suggested make:- Seven star, Ductofab, GP Spira, ZECO Kindly confirm	TATA/JSW
		In BOQ indoor units are mentioned with joints. Please clarify the joints, as Rennet joints are mentioned separately in BOQ.	Separately mentioned rennet are its installation charges, rennet joints are added with indoor units.
		Static Pressure & Coil Row of Dx AHU is not mentioned in BOQ, pl provide the same.	AHU Static Pressure - 50 MM Minimum and 4 row coil depth for AHU application, for TFA application coil row shall be 6 row depth, 25mm PUF panel thickness
		Pl confirm size of diffuser, also confirm damper shall be in GI or in Aluminium	Size of diffusers are 300MM X 300MM, and 450Mm X 450MM as per our layout , damper shall be in GI only
		Pl mention size of cable tray	300mm Wide
		confirm length of exposed piping over UV treatment/Paint is required	UV Treatment piping length (750 RMT)
		Pl Provide complete Specification of panel for VRF units.	We shall provide electrical load of VRV equipment and panel with MCB, ELCB has to be design by electrical vendor
		Starter Panel & Cabling for AHU and Ventilation units are not given in BOQ	BOQ is for reference purpose only.
		CCTV	
		Suggested make:- Hikvision, Dahua, Honeywell or equivalent.	Refer attached make list
		Technical Specification is not there for CCTV	As per BoQ
		Kindly confirm for CAT 6 cable, do we need to consider only cable or need to include conduit as well.	It will be including conduit



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S.No.	Name of Firm	Query	Reply
		Kindly confirm whether we need to quote for analog/ IP CCTV, as the specs provided are for analog system and networking for the same is provided in the BOQ	Specifications Attached
		Megapixel for CCTV is not given ,Kindly confirm the same -	attached
		Please confirm if we need to consider monitor for 24X7 operation	yes 24x7
		Fire Fighting system	
		Suggested make:-Kirloskar, Armstrong for Fire Pumps	List enclosed
		Suggested make:-Newgae, Safex, Shahbhogila,Tyco for Hydrant System and Accessories	List enclosed
		Kindly confirm do we need to Quote for UI approved or Both UL &FM Approved for Sprinkler accessories	As per scope of specification I n work.
		Suggested make Safex make for Fire Extinguisher	List enclosed
		Electrical System	
		SLD is not given for complete Electrical Panel System	attached
		Suggested make:- Arraystrom,Philips, Havells, Wipro for LIGHT FIXTURES & FAN is not given	List enclosed
		Suggested make: -CPRI approved vendorst of Complete Electrical Panel system ,LT Panel.	As per attached.
		Suggested make:-Dlink, Commscope. for TELEPHONE, DATA WIRING AND ACCESSORIES.	List enclosed
		Suggested make:- for UPS System -PC / EMERSON / EATON / Vertiv	List enclosed
		Suggested make of Cable trays :- profab, Inidiana, Pushpak	List enclosed
		Can we Consider D-Link Make of CAT 6 Cable is not given	
		Suggested make Kenter,Bonton,Polycab, make for Cables	List enclosed
		FAS, System	
		Suggested make:-Johnson Controls simplex	List enclosed
		FAS BOQ Sr.no.1 Please confirm if the panel needs to be networkable type. If yes, please confirm if we need copper connectivity or fiber connectivity.	Networkable type with 2x1.5 sqmm FR copper cable connectivity.



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S.No.	Name of Firm	Query	Reply
		Kindly confirm if the FAS Panel needs to be integrated with BMS system.	Not Needed
		Kindly confirm the requirement for extra per loop. Do we need to consider additional loop cards?	As per Requirement by client & Engineers in-charge.
		Kindly confirm the MCP needs to be of single action or dual action type.	It will be Single action type
		The BOQ does not specify about the requirement of Isolator modules, control modules, monitor modules, etc. Kindly confirm if the same is required.	It is optional for FAS System
		The BOQ specifications asks for 2 mic's. Kindly confirm the requirement of the same	As per drawing
		Speaker wattage shall be 2W and hence the total wattage shall be only 80W(2Wx40 nos). We require only 2 nos. 50W amplifier. Kindly confirm the same	As per drawing
		Kindly confirm the PA speaker wattage requirement. Ideally it should be 2 Watts speaker.	PA Speaker will above 6 watt and below 20 watt (as per area requirement)
		Wall mounted speakers generally does not require backbox. Kindly confirm whether we need to quote for ceiling mount speaker with backbox or wall mount speakers.	it will be required in basement floor parking area or other Non flase ceiling area's
		PA BOQ does not have cabling part. Kindly confirm the requirement for the same.	Refer drawings
		Kindly Share the Contact Number and email id for Make GAMEWELL FCI	carry out your own research work
		Kindly share the make for All MEP Packages	As per attached.
		Request you to Remove equivalent word as some of the chinease OEMs can comply on the specifications and quote. Kindly Remove	Follow the tender instructions
		Need to know the room wise Audio and PA system connectivity for individual rooms and various zones to understand the flow of signal as per the items mentioned in tender BOQ	Follow the drawings
		Need equipment placement, rack position and wall mount remote control panel (mentioned for few rooms) as per the room wise BOQ.	to be decided during execution
		3. Need to know the detailed room wise functionality.	Follow the drawings



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S.No.	Name of Firm	Query	Reply
		4. Need to know only audio system and PA system is considered in tender AV BOQ but other subsystem like display, video and switching and control system are not mentioned in tender document.	Follow the drawings
		5. Need to know if other Zones like 3 , 5, 6,7,8 ,9 ,11 and 12 are also available under PA system but not a part of this tender document as in this tender BOQ few zones like - Zone 1,2,4,10,13,14 and 15 are only mentioned. Please clarify.	Follow the drawings
		6. Need to know the detailed technical specifications for local input panel mentioned for few zones like 1,13,14 etc	Contractor's scope
		Need to know if wooden podium with XLR connectivity will be under client scope as there are 2 no of gooseneck microphone in the BOQ	
		For Mini auditoriums - Need to know the usage area of microphones and rack position as line of sight needs to be maintained. Also, there is no antenna system in the BOQ. Request to include antenna system to avoid any signal drop since line of sight will be difficult to be maintained	Contractor's Scope
		a. Need to know if false ceiling will be available in the room as images shown on page no 81,82 and 83 in 'RICVIEWSPDF2" document indicates the open ceiling. Kindly confirm the type of ceiling available as ceiling speakers are mentioned for this area.	Follow the drawings
		Need to know the usage area of 2 no of wireless microphones and rack position as there are 3 no's of Exhibition hall	The entire Exhibition Hall
		Need to confirm bifurcation of speakers allocated 3 no of exhibition area.	The entire Exhibition Hall to be considered
		The references images and layouts show that the ceiling is open, hence need to clarify on the application of ceiling speakers for this zone.	to be decided during execution
		Need to know the exact area in drawing that is covered under Lobby 1 & 2.	carry out your own research work as per the area indicated in the drawing
		Need to confirm bifurcation of speakers allocated for lobby areas and toilets separately	The entire area to be considered
		Need to understand the audio connectivity between zone 1 & 2 devices w.r.t backend audio equipment kept in equipment room in lower ground floor.	carry out your own research work as per the area indicated in the drawing



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S.No.	Name of Firm	Query	Reply
		Also, there is no paging station included in backend equipment room to do announcement for Zone 1 & 2.	
		Same description and qty is mentioned for Sr no 37 ad 38 on page no 267 of Docseproc tender document. Please clarify the same if it is repeated line item or need to quote only one item with qty	Follow The Tender
		Need to know the no of speakers considered for each area	carry out your own research work as per the area indicated in the drawing
		Need to know the area in drawing that is covered under Lobby 1 & 2	carry out your own research work as per the area indicated in the drawing
		Need to understand the audio connectivity between zone 3 & 4 devices w.r.t backend audio equipment's kept in equipment room in ground floor.	carry out your own research work as per the area indicated in the drawing
		There are 3 no of lecture hall shown in shared drawings for 2 nd floor but BOQ is mentioned only for Lecture Hall 1 only. Need to know which lecture hall to be considered for Zone 10.	All the three lecture hall to be considered
		Need to know the detailed technical specification for chairman delegate system mentioned for Sr No 91,92 and 93 on page no 271 of Docseproc tender document.	Vendor to provide the detail specification and get it approved from client during execution
		Voltage: AC100 ~ 240V, 50 / 60Hz	FOLLOW THE TENDER SPECIFICATIONS
		Light source: high power 700W white LED, 6800K	
		LED life: 20,000 hours CRI : ≥74 / Horizontal scan: 540° or 630° (16 bit precision scanning	
		Vertical scan: 270° (16 bit precision scanning	
		Uniform and smooth CMY + CTO color mixing system	FOLLOW THE TENDER SPECIFICATIONS
		color plate: 7 fixed color plates + white light, half color effect	
		Color chip can be positioned at will, with bidirectional rotation rainbow effect	
		1 rotary pattern disk: 6 plug-in rotary pattern pieces + white circle, with pattern jitter and pattern arbitrary positioning function	



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S.No.	Name of Firm	Query	Reply
		1 fixed pattern disk: 8 pluggable fixed pattern pieces + white circle, with pattern dithering function Channel: 36 international standard DMX512 channels	
		Prism disk: rotate 3 prisms + 6 rows of mirrors, can rotate in positive and negative directions, can stack prisms, and has prism positioning function	FOLLOW THE TENDER SPECIFICATIONS
		Zoom: electronic zooming, ultra smooth adjustment of focal length	
		Aperture: 5% ~ 100% smooth adjustment	
		Stroboscopic: the maximum frequency can reach 25Hz, and random stroboscopic and pulse stroboscopic can be selected	FOLLOW THE TENDER SPECIFICATIONS
		Dimming: 0 ~ 100% linear dimming & Atomization: 0 ~ 100% linear atomization	
		Zoom in: 4.5°~ 50° Linear amplification	
		Cutting disc: a set of controllable facula corner cutting system composed of four corner cutting pieces The whole chamfering system can be used for 90 ° Rotation, through the precise control of the cutting sheet	
		Can create any direction of triangle, diamond, rectangle and other shapes of light spot	FOLLOW THE TENDER SPECIFICATIONS
		Can create any direction of triangle, diamond, rectangle and other shapes of light spot	
		Touch color LCD display With RDM function -Size: 510L * 345W * 800H (mm),Net weight: 40kgs,Gross weight: 43kg	
		Please Add:- (MAKE :- PLS)	
		CIVIL WORK	
		1) Need Basic Rate of Granite Stone.	As per bid condition
		2) Item No 7 - need Design Details of Motifs	As per drawings
		Need Detailed Sectional Drawings of HDF Boxes with thickness of Boxes.	As per drawings
		Need Basic Rate of Veneer to be used.	As per bid condition
		1) Need Detailed of Arches in GRC with Drawings.	As per drawings
		2) Also can we Consider Unstone / Terrafirma Make for GRC.	As per bid condition



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S.No.	Name of Firm	Query	Reply
		<i>Need Details of Model no. and Thickness of PVC Sheet.</i>	As per bid condition
		<i>Can we Consider Tranquil / Times Fibre Acoustics Make for Acoustical Board</i>	As per attached make list
		<i>1) Need Detailed Specification of Basalt Stone item with Framing or Fixing Details</i>	As per drawings
		<i>2) Need Basic Rate of Stone.</i>	As per bid condition
		<i>Make mentioned for Glasswool do not provide Polyester Wadding. Can we consider Star Wadding Make for the same.</i>	As per bid condition
		<i>Can we suggest Gypsum Ceiling instead of POP Ceiling.</i>	As per bid condition
		<i>Need Details of Ply ceiling with Frame and Finish Details.</i>	As per drawings.
		<i>Can we consider Envirospray Make for Acoustical Plaster</i>	As per drawings
		<i>Need Vendor Details of Mural Work.</i>	Do your own research.
		<i>Need Basic Rate of Heat Resistant Tile .</i>	
		<i>1) Need Detail of Size of Karauli Stone Cladding Work.</i>	Visit the site.
		<i>2) Need Basic Rate of Stone.</i>	Do your own research as per item approved
		<i>Need Basic Rate of Planters.</i>	Do your own research as per item approved
		<i>Need Basic Rate of Porcelain Tile.</i>	Do your own research as per item approved
		<i>Basic Rate of Wooden Flooring.</i>	Do your own research as per item approved
9.	NBCC SERVICES LIMITED	As per eligibility criteria 'Bidder should be registered in AA class category in JDA or equivalent in other departments /PSUs/private entity registered under companies act or as applicable act'. Pl clarify whether registration is required in case of NBCC Services Ltd. as NBCC Services Ltd. is wholly owned subsidiary of NBCC (I) Ltd. under the Ministry of Housing and Urban Affairs, Govt. of India.	As per bid condition

Note :

1. In the head of "Indicative Quantities for Reference purpose only" the unit stated at item no. 48 & 58 are Kg and Each respectively, which shall be read as Rmt for item no. 48 and Sqm. for item no. 58.



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2. **Supply and Installation of 1st class Teak wood flooring system for Auditorium Stage.**

SURFACE BOARD : Teak Wood Flooring finished with 15 mm thick, 55 to 85mm wide and in random length in tongue and groove shape. The edges of the boards will have a finger lock groove and the bottom side with air pass groove and treated with special anti-termite and water resistant lacquer. (Makes : Berma Teak, M.P. Teak, or Wood as approved by Consultant)

12mm Thk. Water proof ply to be placed above the wood frame in staggered manner.

THE UNDER FRAME : Resilient SPF Saal Wood sleeper subfloor of 70 mm x 45 mm, treated with anti-termite solution and fixed on the bottom side with 10 mm thick EPDM rubber pads, stapled through the two wings at 350 mm x 350 mm.

INSTALLATION : IPS subfloor treated with a vapour barrier to be placed on the levelled IPS sub-floor before laying the under frame. The runners having air cushion pads to be placed on the vapour barrier in perfect level at 350 mm in 1 direction. The surface board to be screwed to the runner through the tongue only and will lock the screwed tongue by the groove of adjoining board. Ends of the boards will be locked by inserting the wooden fingers through the edge grooves and fixed with suitable adhesive. The expansion of 12-15 mm will be left open between the wooden flooring and the surrounding.

FINISHING : After installation the floor will be machine sanded in uniform level and finished with P.U. Polishing water based polyurethane lacquer.

Rate Approximately Rs. 4500/- Per Sq.Mt.

Area appx. 450.00 Sq.mt.

3. Sr. No. 9 of Bid Evaluation Sheet regarding affidavit to deploy machinery and equipment as per schedule III is deleted.

Enclosed :

1. Attendance Sheet - Annexure-1
2. Make List (Civil Works) - Annexure-2
3. Make List (Electrical Works) - Annexure-3

Copy to:

1. PS to JDC, JDA, Jaipur
2. Director Engineering-I, JDA, Jaipur
3. Director (Finance), JDA, Jaipur
4. ACE -I, JDA, Jaipur
5. Prospective Bidders
6. Notice Board (E-procurement Portal)

(Mohit Chaudhary)
Executive Engineer (Project-II)

(Mohit Chaudhary)
Executive Engineer (Project-II)



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Annexure-1

Pre bid meeting for the work "Interior works (Civil, Electrical, HVAC, Light & Sound, Fire Fighting etc.) in Rajasthan International Centre, Jhalana Doongri, Jaipur"

Date : 29.06.2021

Time : 12.00 PM

Venue : Manthan Hall

ATTENDANCE SHEET

Name	Designation	Mobile No.	e-mail ID	Signature
Sh. N.C. Mathur	Director (Engg.-I)	98 290 1131		
Sh. Vradhi Chand Bunkar	Director (Finance)	9799998313	vcbunkar@gmail.com	
Devendra Gupta	ACG-E	9414044014	dgkpb1990@gmail.com	
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Dr. Anurag	ACG (Elect. II)	9999999999		
Prakash Jain	JE, JDA	9599492991		
Vijeta	JE, JDA	9714019877		

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Name	Designation	Mobile No.	e-mail ID	Signature
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PRAMOD JAIN	CONSULTANT ARCHITECT	98290-56782	_____	
RATUL JAIN	COMMERCIAL HEAD - DEPT	9871949925	sruti@akhiptajra.com	

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N.	Name	Designation	Mobile No.	e-mail ID	Signature
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10.	YOGESH SHARMA	Executive Engineer	9983335388	007Yanish Sharma@gmail.com	[Signature]
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12.	RAJATI DIXIT	Manager - Projects	93329722970	rajatis@jda.gov.in	[Signature]
13.	Namish Kumar	Asst. Manager	9711059882	namishkumar@gmail.com	[Signature]
14.	Sudendu Koop Rai	Project Coordinator	9799298008	sudendu@gmail.com	[Signature]
15.	Rakesh Kumar	Project Coordinator Comm. Admin.	9440044022	info.srbh@jda.gov.in	[Signature]
16.	Saurabh Singh	Dy. Manager	9990930405	saurabh@jodrey.com	[Signature]
17.	Pankaj Chakar	Dy. Manager	9313815849	pankaj@jodrey.com	[Signature]
18.	Hariom Meena	E.C. Engineer	9414415907	Triangleengineers@gmail.com	[Signature]
19.					
20.					
21.					
22.					

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Shamsher Singh	Asst. Manager	7577202146		
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Mohammad Shadab	Asst. Manager	7340026410	mohammad.shadab@daikinindia.com	
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Prabuddha Karnawat	Macro Ent	9829040336	paras40336@gmail.com	
Utsav Titarbe	Godrej - Lead North	9930534271	Utsav@godrej.com	
Ankur Bhaswani	Godrej - Juleca	9922660991	ankurb@godrej.com	

LIST OF PREFERRED MAKES OF MATERIALS FOR CIVIL WORKS

S.N.	Material	List of Preferred Make
1.	(i) Ordinary Portland Cement	ACC, Ultratech, Wonder Cement
	(ii) White Cement	Birla White, J. K. White
3.	Water Proofing Compounds, Admixtures, Plasticizer, Super Plasticizer, Curing Compounds	Fosroc, ROFF/Dr. Fixit(Pidilite Industries), CICO, Sika, BASF, Ardex Endura (Bal Endura), Nerolac Perma
4.	Integral Water proofing compound with cement (For Plaster & Mortar)	Fosroc, Conplast 421 Dr. Fixit : LW+, Sika : Sikacim, & equivalent product of BASF, CICO, Ardex Endura, Nerolac-Perma, Asian Paints
5.	Water proofing for bathroom/ toilet/ balcony & other wet areas	Fosroc : Brush Bond/Brushcrete, CICO : Tapecrete, Dr. Fixit : Pidifine 2K, Sika : Nito Bond, Asian Paints : Damp Block 2 K & equivalent product of BASF, Ardex Endura, Nerolac-Perma
6.	Crystalline water proofing compound	Fosroc : Fosroc Crystalline
		Dr Fixit : Dr. Fixit Crystalline
		Sika : Sika Crystalline
		Asian Paints : Crystalline Quart
		& equivalent product of BASF, CICO, Ardex Endura, Pentron, Nerolac-Perma
7.	Grouts, Tile Adhesive	Latecrete, BASF, Ardex Endura, Ferrous Crete, Pidilite, UltraTech,
8	Stone Adhesive	Pidilite - Fevimate excel, BASF, Ardex Endura, MYK Laticrete
12	Particle Board 19mm Thk. Water Proof Board, 19mm Thk. Commercial Board, 16mm Thk. HDF,	Action TESA, Greenply, century, Merino
13	Laminates	Action TESA, Greenlam, Century, Merino, Sunmica
14	Flush door shutters	Duro, Century, Durian, Green ply.
15	Fire Rated Doors	Signum Fire Protection, Shakti Metdoor, NAVAIR, Sukri, Promat International
16	Faise Ceiling System	Armstrong, Hunter Douglas, USG Borai, Saint Gobain, Aerolite, Durlum, Gyproc
17	Plywood (12/9/6mm Thk. Water proof Ply) and Veneer 4mm Thk.	Green ply, Century, Merino, Duro, Durian
18	Melamine Polish	Asian Paints Melamine Gold, Wudfin of Pidilite, Timbertone of ICI Dulux.
19	Floor Spring & Door Closure	Godrej, Dorma, Dorset, Kich
20. (a)	Aluminium Section	Hindalco, Jindal, Indian Aluminum co.
20. (b)	Anodised Aluminium Hardware (Heavy Duty)	Kilong, Alualpha, Classic, Ebco

S.N.	Material	List of Preferred Make
21	Clear/Float/Frosted/ Toughen Glass/ Refractive Glass	Saint Gobain, AIS, Modiguard, Ashai Float.
22	Stainless Steel Railing, Accessories etc.	Dorma, Kich, GEZE, Godrej
23	S.S. Door & window & Fittings	Jindal, Dorma, Kich, Dorset, Godrej, Ozone
24	Silicon based water repellent /Weather Sealant	G.E. Plastics, Dow Corning, Wacker, BASF, Pidilite (Dr. Fixit/Roff), Nerolac-Perma
25	Poly-Sulphide Sealant	Fosroc, Pidilite (Dr. Fixit/Roff), Sika, BASF, Nerolac-Perma
26	Mosaic tiles/ Chequered Tiles	Ultra Tiles, NITCO, Hyper(Mayur), Pavcon
27	Ceramic Tiles	Kajaria, RAK, Somany, Johnson, Marbitto
28	Vitrified Tiles (Satin/Matt/Glazed finish)	Kajaria, RAK, Somany, Johnson, Marbitto
29	Paver block & Kerb Stone	Pavcon, Hyper Tiles/Dynamic Industries/ Mayur, KK, Power, Sharda, Navya
30	Dash / Anchoring Fasteners	HILTI, Fischer, Bosch, Wurth.
31	Cement Based Wall putty	Birla wall care, JK White, Berger, Asian Paints
32	Oil Bound Washable Distemper / Dry Distemper	Asian Paints : Professional Acrylic Distemper, Nerolac: Beauty Acrylic Distemper, Berger : Bison Acrylic Distemper, Dulux ICI : Maxilite
33	1 st Quality Acrylic Distemper (washable/Ready mix/ Low VOC)	Asian Paints : Tractor Aqua Lock Paint, Berger : Commando or equivalent paints of Nerolac or ICI-Dulux
34	Acrylic Emulsion Paints	Asian Paints : Professional Premium Interior Emulsion Paint, Nerolac : Beauty Gold, Berger : Rangoli total care, ICI-Dulux : Super Cover
35	Plastic Emulsion Paint	Asian Paints : Apcolite Heavy Duty Premium Emulsion Paint, Nerolac : Impression, Berger : Easy Clean, ICI-Dulux : 3 in 1
36	Premium Acrylic Emulsion Paints (Interior)	Asian Paints : Royale Luxury Emulsion, Nerolac : Impression , Berger : Silk, ICI Dulux : Velvet touch
37	Synthetic Enamel Paint	Asian : Apcolite Premium gloss enamel, Nerolac : Synthetic Hi gloss Berger : Luxol Hi gloss ICI -Dulux : Gloss Synthetic enamel
38	Cement Primer	Nerolac, BP White(Berger), Decoprime WT(Asian), White primer (ICI)
39	Steel Primer(Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Berger, ICI
40	Wood Primer	Asian Paints (Wood Primer - White/Pink), Berger ICI, Nerolac,
41	Epoxy Paint	Asian, Nerolac, Berger, ICI, Kansai Akzo Nobel
42	Fire Paint	Caboline, Akzo Nobel Coatings India Ltd., PROMAT, Jotun, Asian Paints, Berger
43	Mirror Glass	Atul, Modi Guard, Jaquar, CERA.

S.N.	Material	List of Preferred Make
44	Stainless Steel Sink	Neelkanth, Niralli, CERA
45	UPVC Doors & Windows (PROFILE makers & their authorized Fabricators only)	Fenesta, KOMERLING, RHEAU, Aluplast.
46	Extruded Polystyrene Insulation Board	Dowcorning, Supreme, Texas, Analco
47	Heat Resistant Tiles	Swastik, Thermatek
48	Gypsum Plaster	Ferrous Crete, Gyproc Saint Gobain, Boral, UltraTech-Birla white, JK lakshmi
49	Floor hardener	Ironite, Ferrok, Hardonate
50	Modular Expansion Joint	Herculus, Sanfield India Ltd. Vexcolt, Tristar
51	Glass Wool	NOWOfill, Dow Corning, U.P. Twiga, Isover
52	UPVC doors and window hardware	Rotto, Dorset, Kinlong
53	AAC Block Adhesive	Xtralite, Orifix, Ardex Endura, Ferrous Crete, UltraTech
54	AAC Block	UltraTech, Orilite, Seporex(Buildtex), HIL-Aerocon,
55	Stone Polymer Composite tile Flooring	Welspan, Fundermax, Egger
56	Artificial/Synthetic Grass	Welspan, Floortex, Matrix turf
57	Acoustical Wall Panelling	Armstrong, Nowofil, Anutone
58	Acoustical False ceiling	Saint Gobin (Gyproc), Armstrong, Anutone
59	POP False ceiling	JK birla white, Gyproc
60	Laminate	Century ply, Green ply, Royal Touch
61	Veneer 4mm Thk.	Century ply, Green ply, Royal touch
62	Wood work	Burma teak, Ghana, Sal wood, Nigeria, Ivory coast, MP teak
63	Laminated Wooden floor	Vista, Welspun
64	Carpet	Unitex, flotex, Carus, Beauliev
65	Led fixtures	Philips, Wipro
66	chandelier	Jaquar, Tisva
67	Chairs and Loose furniture	Godrej, Figueras, Aresline
68	Paint	Asian paint, Burger
69	PVC LAMINATE	D-Stona, Aica India
70	Hardware for door window	Godrej, Dorma, Dorset, Kich
71	Aluminium work	Standard make approved by EI
72	Glass work	Modi, Saint Gobain
73	clips, hangers fasteners	Standard make approved by EI
74	HDF Jali	Greenply, Centuary or Standard make approved by EI
75	Electrical items	Standard make approved by EI
76	Sanitary items	Jaguar, Kajaria, Roca, Cera

Project Name :- RAJASTHAN INTERNATIONAL CENTER
Architect :- Pramod Jain & Associate
Electrical Consultant :- Current Infraprojects Pvt. Ltd. Jaipur

Makes List

S. NO.	ITEMS	PROPOSED MAKES
1	PVC Conduit	AKG, BEC, Precision, Polypack, Shrinath, Polycab, Plaza, Dauphin, Richa
2	PVC Copper Conductor	Rallison, Delton, Eon (Indoasian), KEI, Terexal, Plaza, Anchor, L & T, Standard, Paramount, Empire, Orient Cab, Orbit, HPL, Unicab, SPC, Emgee, Polycab, Havell's, Rajsafe, Diatron
3	Coaxial Cable	Finolex, National, RR Kabel, Polycab, Havell's
4	Telephone Cable	Delton, Finolex, National, Polycab, Havell's
5	Distribution Board & it's Accessories	Schneider (neo break), Siemens, HPL, GE, Standard, Indoasian(gold), Havell's, C & S, ABB (S270)
6	Modular Wiring accessories	MK (wrap around), Legrand (Myrius), North West (PC Plus), ABB (Classic Luminia), C&S, Plaza (Rose), Anchor (Wood), Leader (Teak wood / Blenz), Vinay (Camy Corsa), Schneider (Opale), L&T (Oris), Philips, Havell's (Crabtree)
7	Digital type meters	Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG
8	Current Transformers	C&S, L&T, Nippen, Schneider, Siemens, AE, Kappa, Milborn
9	Selector / Rotary / Cam Operated Switches	GE, Siemens, C&S, HPL, L&T (salzer), ABB, Schneider
10	Indicating Lamps	Siemens, C&S, GE, ESBEE (L&T), BCH, ABB, Schneider, Vaishno, Rass control, Kaycee, HPL, Milborn
11	Energy analyser / Multi function meter	HPL, L&T, Schneider, Secure, AE, Raychem RPG, Neptune
12	APFC Relay	Beluk, Epcos, Schneider, GE, Neptune, ABB, Vishay ESTA, L&T
13	Mechanical / Digital / Astronomical time switch	Legrand, L&T, GE, Schneider, ABB, Siemens, Indoasian, Milborn
14	Air Circuit breakers	ABB, Siemens, GE, L&T, Schneider, C&S
15	Moulded Case Circuit Breaker	ABB, Siemens, GE, L&T, Schneider, Legrand, C&S, HPL, Indoasian, BCH
16	LT Cables	Rallison, Ekta, Delton, Havell's, KEI, Terexal, Plaza, Paramount, Grandlay, Gem'scab, MPCAB, Worldcab, Diatron, Unicab, Unistar, Gemini, Romex, Ishwarcab, SPC, Orient cab, Empire, Orbit, Polycab, Rajsafe, Metro, RR Kable
17	Gland	Gripwel, Comet, Metalcraft, Cabend, Trinity Touch, HMI
18	Lugs	Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch

19	M S Cable Trays	Veenus, Pasco, Storrax, Skaber, Profab, Pilco, Slotco, Needo
20	H T Cable	Gloster, RPG, Polycab, Unistar, KEI, Havell's, MPCAB, Gemscab, Paramount, Unicab, Diatron, Finolex, Gemini
21	End termination For HT Cable	Raychem, Denson, M - Seal, Cabseal, 3 M
22	Gel Earthing	Ashlok, Ash, SI, JK, REIL, True Power
23	Lightning Arrester	LPI (Australia), LPSFR (France), Sudafix (UK), EF (Switzerland)
24	Ceiling Fans	Almonard, CG, Khaitan, Bajaj, Usha, Orient, Ortem, Havell's, Polar
25	LED Lighting	Philips, CG, Bajaj, Wipro, Surya, Havell's, HPL, K-lite. Lighting Science
26	Hot dipped galvanized Octagonal pole	Philips, BPP, PE, Aster, Surya, Valmont, CG, Transrail, Utkarsh
27	UTP Cat 6 cables	Amp, Avaya, Molex, Penduit, Dax
28	Information outlets / Patch cords / Face plates / Patch panels / Optical fibre cable / Fibre pigtaills	Amp, Avaya, Molex, Penduit, Dax
29	Communication Racks	president, Legrand, Rittal
30	Transformer & Accessories	Alstom, Crompton Greaves, Schneider, Voltamp, ABB, Emco, Bharat bijlee
31	Batteries	Exide, Standard, Amarraja, Amco
32	HT Circuit Breaker / RMU	ABB, Schneider, Areva, C&S, Crompton greaves, Siemens
33	DG Set alternator	Stamford, Kirloskar
34	DG Set Engine	Cummins, Caterpillar, KOEL
35	Electrical Driven Fire Pump, Jockey Pump, Terrace pump, Dewatering pump	Mather & Platt (Willo), Kirloskar, Beacon, Grundfos, ITT
36	Electrical Driven Fire Pump's motor	ABB, KEC, CGL, Bharat Bijlee, Grundfos
37	Diesel Engine for fire pump	Cummins, Greaves, KOEL
38	MS / GI pipes	Prakash Surya , TT Swastik , Jindal (Hisar), Tata
39	Sluice / Butterfly / Non return / Ball valves	Audco , Advance , Zoloto , Kirloskar , Intervolve, Leader, Cim
40	Fire hydrant valves / Short branch pipe / FB Withdrawl & Inlet	Newage, Ceasefire, Vijay, Minimax, Eversafe , Peter autokit , Padmini
41	Fire hose pipes / First aid fire hose reel / Fireman's Axe	Newage, Ceasefire, Jayshree , Ushafire, Safex, Eversafe, Jyoti
42	Sprinkler heads	Tyco, Eversafe, Reliable, Spraysafe, Viking
43	Addressable type Detectors / FACP / Hooters / Pull station / Speaker / DVC / Modules	Notifier, Simplex, Johnson control, Cooper, Fike, Esser, Bosch
44	Fire Extinguishers	Cease fire, Safex, Minimax, Newage, Peterautokit, Eversafe, Ansul
45	P A System	Ahuja, Bosch, Philips, Odionix, Cooper
46	UPS	Microtek/ Lumnious/ IPS
47	Battery	HBL/ Exide/ Amron
48	Monitor	LG, SAMSUNG, Sony
49	CCTV	Hikvision, Pelco , Matrix, CP PLUS, Panasonic, Sony, Bosch, Tyco
50	Lighting Mgmt System	Dynalite/Creston/Schneider

List of Approved Make & Material Specification

Material	Make	Standard
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Copper Pipe	Maxflow/Quality Tubes	Eddy Current Tested
Dia	Thickness of Copper Pipe	Type
6.4 mm	0.80 mm	Soft Pipe
9.5 mm	0.80 mm	Soft Pipe
12.7 mm	0.80 mm	Soft Pipe
15.9 mm	1.00 mm	Soft Pipe
19.1 mm	0.80 mm	Half Hard
22.2 mm	0.80 mm	Half Hard
25.4 mm	0.88 mm	Half Hard
28.6 mm	0.99 mm	Half Hard
31.1 mm	1.10 mm	Half Hard
34.9 mm	1.21 mm	Half Hard
38.1 mm	1.32 mm	Half Hard
41.3 mm	1.43 mm	Half Hard

Refnet Joints	Daikin Make only	Heavy Gauge
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Copper Pipe Insulation	Armacell (Armaflex)	Class 'O'
Dia	Thickness of Insulation	
6.4 mm	13 mm	Class 'O'
9.5 mm	13 mm	Class 'O'
12.7 mm	13 mm on Liquid & 19 mm on Gas Line	Class 'O'
15.9 mm	13 mm on Liquid & 19 mm on Gas Line	Class 'O'
19.1 mm	13 mm on Liquid & 19 mm on Gas Line	Class 'O'
22.2 mm	19 mm	Class 'O'
25.4 mm	19 mm	Class 'O'
28.6 mm	19 mm	Class 'O'
31.1 mm	19 mm	Class 'O'
34.9 mm	19 mm	Class 'O'
38.1 mm	19 mm	Class 'O'
41.3 mm	19 mm	Class 'O'

Communication Cable	Polycab	1.5 Sqmm x 2 Core
PVC Conduit	Jindal	20 mm dia (Medium)

PVC Drain Pipe	Supreme	10kg/cm ²
Drain Pipe Insulation	Armacell (Armaflex)/% Flex	Class 'O'

GI Sheet	JSW/TATA	120 GSM
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Flexible Duct Connection Flexible Duct Connection	Imported	Fire Retardant nonporous
Duct Acoustic Lining 10 mm thick Open Cell Nitrile Rubber foam	A Flex	Class-1
Duct Insulation Closed cell cross linked expanded polythene foam 13mm thick	Paramount	Class-1
Grills / Diffusers/Dampers	Systemair / Swirl Air	
Isolators Isolators & ELCB	Legrand	
Cable Tray	GI Perforated	300 mm x 75 mm x 1.6 mm thick
Nitrogen	For Brazing For Pressure Testing	High Pure Normal
Adhesive	Pidilite	Poly grip
UV Paint	Starbond	

Note :- We use clamps in all vertical copper piping running in shaft



Rajasthan International Centre Jaipur

Interior and furnishing work

HVAC

GENERAL CONDITIONS FOR CARRYING OUT THE HVAC WORK

- Only manufacturers specified in group 1 of latest JDA BSR-2016 are eligible for HVAC work.
- In order to promote indigenous work, only those companies who manufacture their equipment in INDIA would be given preference.
- The VRV/VRF Outdoor Units (Heat Pump) must be suitable for up to 165 m refrigerant piping between outdoor units & the farthest indoor units. Allowable level difference between outdoor unit and indoor units shall be 90 m in case of outdoor unit of top & 90 m in case of outdoor unit at bottom. Allowable level difference between various indoor units shall be up to 30 mtr.
- The outdoor units shall be suitable to operate in an ambient temperature range of -5 Deg C to 49 Deg C in cooling mode, & -20 Deg C to 15 Deg C in heating mode.
- Complete refrigerant circuit, oil balancing/equalizing circuit shall be factory assembled & tested. Units above 12HP shall be with multiple compressor.
- In order to avoid short cycling of hot air, the outdoor unit fan should have external static pressure of more than 75 Pa, top discharge for easy discharge of hot air. The ODU must deliver COP of minimum 5 at 50% load.
- Air handling Units (AHUs) shall be of same make as VRV/VRF and to be supplied by OEM of VRV/VRF supplier for better integration between AHU and outdoors.
- The cassettes units shall have dual sensor which detect the presence of people and floor temperature to provide comfortable air-conditioning and energy saving. The sensor should detect human presence and adjust the air flow direction automatically to prevent drafts. Room temp should be increase up to 4 Deg C or the indoor unit to be switched off when people are not detected. The sensor should detect the floor temperature and automatically adjusts the operation of the indoor units to reduce the temperature difference between the ceiling and the floor.
- The VRV/VRF outdoor units shall have VRT/VET feature to automatically modulate the evaporative temperature between 6 Deg C to 11 Deg C with respect to load for better comfort and energy efficiency.
- Outdoor units shall have automatic refrigerant charge function to avoid errors of manual refrigerant charging.
- All execution work shall be executed by OEM authorised dealer/channel partners to adhere OEM standards of installations.