



TransPeshawar (The Urban Mobility Company)

Request for Quotation for Renovation of TransPeshawar office at Chamkani



REQUEST FOR QUOTATIONS

Loan 3543-PAK: Peshawar Sustainable Bus Rapid Transit Corridor Project

Procurement Name	Renovation of TransPeshawar Office at Chamkani
Source of Funding	Asian Development Bank (ADB Loan 3543-PAK)
Tender Ref. No.	TPC/A&HR/W/Shopping/2020/001/RB
Bid Security	One hundred and fifty thousand Pak Rupees (PKR. 150,000) in shape of Demand Draft/ CDR/PO from a scheduled bank of Pakistan in the name of Chief Executive Officer, TransPeshawar (The Urban Mobility Company).
Performance Security	The successful Bidder shall be required to provide a performance security in PKR to the amount of ten (10%) of the total bid price, in form of CDR/DD or Bank Guarantee, at the option of bidder, from a scheduled bank of Pakistan, within Fourteen (14) days of issuance of Letter of Acceptance. Performance security shall remain valid throughout the execution of contract and shall be returned within 10 days after the expiry of defect liability period and subject to satisfactory performance under the contract.
Date of this Request	3 rd June, 2020
Deadline for Submission of Quotations	11:00 AM 17th June, 2020 (Wednesday)
Date of Bid Opening	11:15 AM 17th June, 2020 (Wednesday)



Sir/Madam:

- 1. TransPeshawar (hereinafter called "the Employer") is established by the Government of Khyber Pakhtunkhwa to operate the Bus Rapid Transit (BRT) system currently being implemented in Peshawar. Set up under section 42 of the company's ordinance, 2017, the Employer is responsible for BRT project design, procurement, implementation, on-going BRT operations and service contract management. The employer is committed to provide quality ridership services to citizen of Peshawar. Unique of its own kind in KP, Peshawar BRT will offer many unique features and facilities for daily future commuters of Peshawar.
- 2. BRT system will be served by 30 stations, and spans the entire urban region of Peshawar from Chamkani in the east and to Karkhano in the west. The BRT system is planned to be operating soon.
- 3. The Employer hereby requests for submission of Quotation for "Renovation of TansPeshawar office at Chamkani" as per attached BoQ hereinafter called "the Works"
 - If you, however, have been associated with the firm that prepared the requirements, and specifications of the contract that is subject of this procurement, you shall be disqualified.
- 4. It is understood that the bidder has gone through the entire Request for Quotation document and has complete understanding of the terms, conditions, specification/BOQ, and attached Form of Contract. The attached terms and conditions form an integral part of contract.
- 5. You must quote for complete scope of the Works under this request. Bidders not quoting for complete scope of the Works shall be disqualified.
- 6. A fixed lump sum total cost inclusive of all taxes shall be quoted in the Form of Quotation. Price quotations will be evaluated for all the items together and contract awarded to substantially responsive bidder offering lowest evaluated total cost of the Works.
- 7. You shall submit one Price Quotation on a Form of Quotation along with priced BOQ and supporting documents in accordance with para 9 below in a single envelope. Your quotation may be accompanied by adequate technical documentation and catalogue(s) and other printed material or pertinent information of the quoted items. The envelope shall be addressed to the Employer at the address provided below, bearing the name and address of bidder and title of the Contract.

Chief Executive Officer TransPeshawar (The Urban Mobility Company) First Floor, KPUMA Building, Main BRT Depot, Opposite NHA Complex, Chamkani, Peshawar

- 8. Form of Quotation must be typed or written in indelible ink and shall be signed by you or your authorized representative. Without a signature on Form of Quotation, your quotation will be rejected as non-responsive.
- 9. Technical Criteria:

It is a fail/pass criterion. The bidders must fulfill all the requirements mentioned below.

- Registered with relevant legal/professional body; (Attach certificate of registration)
- ii. Registered with FBR and on Active Tax Payer List (ATL) of FBR; (Attach certificate of registration)
- iii. Registered with Khyber Pakhtunkhwa Provincial Revenue Authority in sale tax on services; (Attach certificate of registration)
- Successfully completed/on-going at least two (02) similar contracts, each valuing PKR five iν. (05) Million or more; (Attach work order/contract agreements/completion certificates)
- Minimum average annual turnover for last three (03) years is PKR ten (10) Million or more; ٧. (Submit financial statements of last three years)
- An affidavit on stamp paper to the effect that the firm has not been blacklisted by any Federal vi. or Provincial Public Entity;
- Bid Security in accordance with Para 12 (vi) of RFQ; vii.

an Mobility

Submission of supporting documents to the above requirements is mandatory. Failing to submit any of the above document shall result in non-responsiveness of the bidder.

- Your quotation shall be submitted as per following instructions and in accordance with attached Form of Contract. The attached Terms and Conditions is an integral part of the Contract.
 - (i) PRICES: The unit rate and the prices to be quoted by the bidder shall be in Pak Rupees. The bidder shall fill in rates and prices for all items of the Works described in Bill of Quantities. Items against which no rate or prices is entered by the bidder will not be paid for by the Employer when the contract is executed and shall be deemed to be covered by rates and prices for other items in the Bill of Quantities. All duties, taxes and other levies payable by the Contractor under the Contract shall be included in the rates and prices and the total Bid Price submitted by the bidder. The total sum (Bid Price) in BoQ shall be carried forward to the Form of Quotation. The rates and prices are fixed and are not subject to change during currency of the contract.

In evaluating the quotations, the Employer will adjust for any arithmetical errors as follows:

- where there is a discrepancy between amounts in figures and in words, the amount in words will govern;
- where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern;
- (ii) EVALUATION OF QUOTATIONS: Offers having no reservations to the terms and conditions. and meeting the requirements regarding scope of the Works, specifications and documentation mentioned under paragraph 9 above shall be declared as substantially responsive. The Employer shall evaluate and compare the prices of only those quotations determined to be substantially responsive
- (iii) AWARD OF CONTRACT: The contract will be awarded to the bidder having lowest evaluated bid price against given specification and determined substantially responsive. The bidder whose quotation has been accepted will be notified of the award of contract within validity period through Letter of Acceptance issued by the Employer. The contract may be offered to next substantially responsive, lowest bidder if the first lowest bidder repudiates the contract.
- (iv) VALIDITY OF THE OFFER: Your quotation should be valid for a period of ninety (90) days from the deadline for receipt of quotation indicated above.
- (v) COMMUNICATION: Bidders should note that during the period from the receipt of the quotation until award of Contact, all queries should be communicated in writing via e-mail below.



CC: Abid Mansoor : abid.mansoor@transpeshawar.pk
CC: Khalil Ahmed : khalil.ahmed@transpeshawar.pk

(vi) BID SECURITY:

(a) Bid security shall be submitted to the amount of PKR one hundred and fifty thousand (PKR. 150,000) in shape of Demand Draft/CDR/PO from scheduled bank of Pakistan in the name of Chief Executive Officer (CEO) TransPeshawar. A bid not accompanied by compliant bid security shall be rejected as non-responsive;

- (b) The requisite bid security shall remain valid for a period of Twenty-Eight (28) days beyond the original period of bids validity;
- (c) Bid security of the unsuccessful bidders shall be released once the successful bidder furnishes the prescribed performance security or on the expiry of validity of Bid Security whichever is earlier.
- (d) The bid security of successful bidder shall be returned once the successful bidder has signed the contract and furnished the required performance security.
- (e) The Bid security shall be forfeited:
 - If a bidder withdraws his bid during the period of bid validity; or
 - If a bidder doesn't accept the correction of his Bid Price, pursuant to Para 10
 (i) above; or
- f) In the case of a successful bidder, if he fails to:
 - Furnish the performance security in accordance with Para 10 (viii) below;
 - Sign the contract agreement, in accordance with Para 10 (vii) below.

(vii) Signing of Contract

- (a) Promptly after issuance of Letter of Acceptance, the Employer shall send the successful Bidder the Form of Contract.
- (b) Within fourteen (14) days of receipt of the Form of Contract, the successful Bidder shall sign, date, and return it to the Employer.

(viii) Performance Security

- (a) Within Fourteen (14) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract;
- (b) Failure of the successful Bidder to submit the above-mentioned performance security or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security;
- (c) Performance security shall remain valid throughout the execution of contract and shall be returned within 10 days after the expiry of defect liability period and subject to satisfactory performance under the contract;
- (d) The Performance security may be forfeited if the contractor failed to deliver in accordance with the terms and conditions of the contract or commits any breach of the Contract or unable to correct the defects during defect liability period.
- 11. This Request for Quotation is being conducted under ADB Procurement Guidelines. As such under ADB's Anti-Corruption Policy, bidders shall observe the highest standard of ethics during the procurement and execution of such contracts. ADB will reject a proposal for award, and will



impose sanctions on parties involved, if it determines that the bidder recommended for award or any other party, has engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, the Contract. At the time of submission of your quotation, you should not be in ADB's sanctions list.

12. You may confirm by e-mail (mentioned above) the receipt of this request and whether or not you will submit the quotation(s).

Sincerely Yours,



Chief Executive Officer
TransPeshawar
(The Urban Mobility Company)

1 FORM OF QUOTATION (on company's letterhead)

To:

Phone Number:

Fayyaz Ahmed Khan, Chief Executive Officer TransPeshawar (The Urban Mobility Company), First Floor, KPUMA Building, Main BRT Depot, Opposite NHA Complex, Chamkani, Peshawar.

(and Col	nditions of Contract accompanying this Qu	KR. We propose to complete the Works described in
	S#	Description	Total of prices for Chairs, Tables, Record Room, Roll Ups and Electrical Appliances, carried forward from BOQ (Including Taxes) Contract Price (PKR)
	1	Renovation of TransPeshawar Office at Chamkani	
\ \	hat you We her obtainin	u are not bound to accept the lowest or an eby confirm that this Quotation complies	with the Validity of the Offer, Warranty Conditions and with terms and conditions imposed by the Request for
١	Ne hav		repared the design and specifications of the contract tha
١	Ne are	not in the ADB sanctions list.	
(Supplie	er to complete below)	
Authorized Signature: Name and Title of Signatory: Date:		_	The speshame of the state of th
1	Addres	es:	Urban Mobility Coffee

Email Address:

2. FORM OF CONTRACT

Name of Contract: Renovation of Office of Transl	Peshawar at Chamkani
Contract Number: TPC/A&HR/W/Shopping/2020)/001/RB
This Contract is made this day (The Urban Mobility Company) on the one part (he (hereinafter called the Contractor) on the other part	y of2020 between TransPeshawar ereinafter called the Employer) andrt.
to be performed by the Contractor viz Contract I (hereinafter called "the Contract" and the Contrac	r "Renovation of TransPeshawar Office at Chamkani" Renovation of TransPeshawar Office at Chamkani" ctor has submitted a quotation for the Contact and the dated for the execution and completion s therein. TransPeshawar has accepted the Quotation (in words)
Now this Contract witnesses as follows;	
assigned to them in the contract referred to	shall have the same meanings as are respectively of the same of the same meanings as are respectively of the same of the same meanings as are respectively of the same meanings as a same meanings as a same meaning asame meaning as a same meaning as a same meaning as a same meaning
	ecute the Works fully described in the contract in a er in accordance with the Terms and Conditions of the
	covenants to pay the Contractor the Contract Price (in words and figures) in the manner as
In witness whereof the parties thereto have caus before written.	sed the Contract to be executed the day and year first
Signature and seal of the Employer:	Signature and seal of the Contractor:
FOR AND BEHALF OF	FOR AND BEHALF OF
Name of Authorized Representative	Name of Authorized Representative

3. TERMS AND CONDITIONS



Name of Contract: Renovation of TransPeshawar Office at Chamkani

Contract Number: TPC/A&HR/W/Shopping/2020/001/RB

Completion Period: Six (06) weeks from date of signing of the contract.

- 1. The Contractor hereby covenants to execute the works fully described in the Bill of Quantities included in the Contractor's Quotation (attached as Annex-1) which constitute an integral part of this Contract in a professional and workmanship like manner in accordance with the following Conditions of Contract:
 - (a) Prices contained in the Form of Quotation shall remain firm and fix and not subject to any adjustment during currency of the contract.
 - (b) Upon delivery of goods, the Supplier shall provide the following documents to the Purchaser:
 - (i) Manufacturer's warranty certificate (where applicable); and
 - (ii) Certificate of origin/Purchase invoice (where applicable).
 - (c) The Contractor shall confirm compliance with the specifications mentioned in the BoQ.
 - (d) The Contractor remedy all defects without any cost to Employer within 07 days of notification by the Engineer in charge to be notified by the Employer during the period of execution of the contract and thereafter defects notified within the defect liability period;
 - (e) The Employer reserves the right to terminate the contract due to unsatisfactory performance within 10 working days after giving a written notice;
 - (f) If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Engineer in charge shall certify that the contract has been frustrated. In such an event, both the Employer and Contractor will have a right to terminate the contract by giving 10 working days' notice to the other party without any financial repercussions on either side:
 - (g) Payments after termination or frustration shall consider the value of work completed and materials delivered by the Contractor;
 - (h) All material on site, temporary works, and Works shall be deemed to be the property of the Employer if the contract is terminated due to fault of the Contractor;
 - (i) The Contractor will in all cases abide by the directions of the Engineer in charge;2
 - (j) The Contractor shall submit to the Engineer in charge, a program within 05 working days after signing the contract describing general methods and schedule to complete the works;
 - (k) No part of the works shall be subcontracted without prior approval of the Employer;
 - (I) New items of work performed as ordered by the Engineer in charge will be paid at the mutually agreed rate and in case of any disagreement between the Contractor and the Engineer in charge, the latter will fix the unit rate(s) that will be binding on the Contractor;
 - (m) The Law governing the contract shall be applicable laws of Islamic Republic of Pakistan;
 - (n) The Contractor shall be responsible for the safety of all the activities and any damages to the existing infrastructure on the Site. Contractor shall be responsible for the repair of any damage(s) caused during execution of the contract and bringing it back the condition before damage to the satisfaction of Engineer in charge.
 - (o) During execution of work(s), the Engineer in charge will carry out inspection of work(s)/goods at site to verify that work(s)/goods are executed by the Contractor in

- accordance with the required specifications and finishing according to the satisfaction of Engineer in charge. Engineer in charge will reject works/goods not performed/delivered in accordance with required workmanship/specifications and the Contractor shall take immediate actions to rectify all defects within defect liability period;
- (p) Either party may terminate the Contract by giving a 10 working days' notice to the other for unforeseen events such as wars and acts of Gods such as earthquake, floods fires etc. In such case the payments will be made to the date of termination of contract;
- (q) The Contractor is responsible for all taxes, duties. levies, etc. in accordance with the laws of the Islamic Republic of Pakistan; and
- (r) The disputes between the Employer and the Contractor arising between them under or in connection with the Contract shall be resolved amicably. In the event the dispute remains unresolved between the Employer and the Contractor, the dispute shall be settled in accordance with the provision of the Arbitration Act 1940 of Pakistan.
- 2. In consideration thereof the Employer covenants to pay the Contractor the contract price of PKR------ (in words and figures) in the following manner and installments:
 - (i) Each installment payment will be due for payment within 21 days of submission of invoice subject to affirmative determination of quality/quantity of goods/works by the Engineer in charge when the value of the work actually performed, calculated on the basis of unit prices and quantities, reaches 25 percent of the contract amount.
 - (ii) The Contractor shall submit manually signed Invoice mentioning that the actual work done against the BoQ;
 - (iii) The final payment of 20 percent of the contract amount shall be made upon completion of the works certified by the Engineer in Charge.
- 3. The defect liability period will be (06) months after taking over of all completed work under the Contract by the Employer;
- 4. Performance security shall be Ten (10%) of the Contract Price in PKR in shape of CDR/DD or Bank Guarantee, at the option of bidder, in the name of CEO TransPeshawar from schedule bank of Pakistan and shall be provided not later than the date specified in the Letter of Acceptance. Extension of performance security shall be subject to extension of the Contract. The performance security shall be retained during performance of the contract and shall be released after expiry of defect liability period subject to satisfactory performance. Performance security shall be deducted if the Contractor defaults under the Contract;
- 5. Liquidated damages of one tenth of one percent (0.1%) for each day of delay in completion of the Works may be deducted subject to a maximum of 10% of the Contract Price;
- 6. All Electrical and Multi-Media Appliances/Goods provided by the Contractor under the Contract shall be covered by manufacturer's warranty for at least 12 months from the date of delivery to the Employer;
- 7. The contractor shall provide manufacturer's or supplier's warranty certificate and certificate of origin/purchase invoice with the delivered goods.



Project: Peshawar Sustainable Bus Rapid Transit Corridor SUM Calculations for Renovation of Trans Peshawar Office at KPUMA **Summary of cost** Sr.No Description **Amount** Tables а Chairs b Record room С d Rollups, Glass, Electrical App Total Amount(PKR)



Project: Peshawar Sustainable Bus Rapid Transit Corridor

Calculations for

Trans Peshawar Office

Furniture Detail (Tables)

Sr.No	Description	Item Code	Unit	Quantity	Rate Rs.	Amount
	Supply of Furniture					
1	Providing and fixing Interwood brand or equivallent CONTE DESK (OF-21DK-CO-28154) Made of veneer pressed on particle board + solid wood & including inlay + printing leather wrapped on mdf top + polish finish. As per drawing. Desk Size: 2140 W x 960 D x 760 H (mm)	FG050000923	Each	1		
2	Providing and fixing Interwood brand or equivallent SIDE RACK RIGHT (OF-21SRR-CO-28156) Made of veneer pressed on particle board + solid wood & including inlay + printing leather wrapped on mdf top + polish finish. As per drawing. Side Rack Size: 1280 W x 600 D x 760 H (mm) Rack right or left will be decided as per site condition	FG050000155 OR FG050000156	Each	1		
3	Providing and fixing Interwood brand or equivalent CONTE CREDENZA (OF-21CR-CO-28157) Made of veneer pressed on particle board + solid wood & including inlay + printing leather wrapped on mdf top + polish finish. As per drawing. Size: 2140 W x 520 D x 760 H (mm)	FG050000149	Each	1		2004
4	Providing, making and Fixing 18mm thick super gloss MDF main table (6'-0" x 2'-6" x 2'-6") with doubled (18mm+18mm=36mm) super gloss MDF for its support and extra support for its top 18mm thick board and side rack with (4'-0" x 1'-4" x 2'-6") and frame of side rack of perthal wood treated with anti insect solignum, with solid Ashwood lipping on all external sides and for supports with direct contact with the ground as per attached detailed drawing for the table (NT2) and as approved along with high quality lock, knobs, handles, channel, kitchen hinges and other hardware, complete in all respect.	NT2	Each	15	To Children Med	A Committee of the comm
5	Providing, making and fixing conference table L=24'-0",W=4'-8"& 6'-0" And H= 2'-6" made of solid ash wood+Printing leather pasted on A grade local mdf + high quality polish of ICI brand or equivalent polish material as per attached detailed drawing (NBT) and architects approval along with high quality hardware complete in all respect.	NBT	Each	1		
6	Providing, making and Fixing 16mm thick AI Noor tactile series MDF or equivalent with PVC lipping as approved as per attached detailed drawing (CB) and as per architects approval along with high quality lock, knobs, handles, channel, kitchen hinges and other hardware complete in all respect.	СВ	Each	26		
7	Providing, making and fixing 18mm thick super gloss MDF dinning table DT (8'-0"x3'-6") with solid ash wood lipping as per attached detailed drawing (DT) and as per approval, complete in all aspects.	DT	Each	3		
8	Providing and making Coffee table (3'-3" x 2'-0" x 1-4") as per attached Drawing (CT3) and architects approval along with quality hardware, complete in all respect.	СТЗ	Each	5		
	Total A	mount(PKR)				

Project: Peshawar Sustainable Bus Rapid Transit Corridor	Furniture Detail (Chairs)				
Calculations for Trans Peshawar Office	- Furniture Detail (Chairs)				

Sr.No	Description	Item Code	Unit	Quantity	Rate	Amount
1	Providing and fixing Interwood brand or equivallent CONTE EXECUTIVE CHAIR (OF-21EC-CO-28209) Made of solid wood, upholstered with foam & leather + base with wooden padestal & gas lifter machine, polish finish. As per drawing. Size: 600 W x 560 D x 950 H (mm)	FG050000151	Each	1		
2	Providing and fixing Interwood brand or equivallent CONTE VISITOR CHAIR (OF-21VC-CO-28210) Made of solid wood, upholostered with foam & leatherite + polish finish. As per drawing. Size: 625 W x 560 D x 950 H (mm)	FG050000158	Each	2		
3	Providing and fixing Interwood brand or equivallent CONTE SOFA 2 SEATER (OF-21SF2-CO-28226) Upholstered with foam and leatherite. Inner structure made of Acacia wood and Legs in Mahogany wood Size: 1857 W x 968 D x 813 H (mm)	FG050000153	Each	2		
4	Executive perennial chair of Chairister brand or equivalent as approved (PA/CFO/GM/AUDIT/SECREATY ROOM) Top leatherite integrated with molded foam medium seat and back with H/Rest cushion having fire retarding properties, laminated over 3D molded ply shell vinyle Backing, P.U Arms, Hydraulic gaslift, Lockable tilting mechanism, small nylon fiber base, P.U coated castors and as per approval.	221	Each	10		
5	Officer president chair of Chairister brand or equivalent as approved(CONFERENCE ROOM) Top leatherite upholstered integrated with Molded foam medium seat and back cushion having fire retarding properties, Laminated over 3D molded ply shell, vinyle backing, P. U. arms with leatherite padding, hydraulic gaslift, lockable tilting mechanism, small five star nylon fiber base, P. U. Coated castors and as per approval.	543	Each	20	rice Pe	Show 2
6	Officer president chair of Chairister brand or equivalent as approved(DINING ROOM) Top leatherite upholstered integrated with Molded foam medium seat and back cushion having fire retarding properties, Laminated over 3D molded ply shell, vinyle backing, P. U. arms with leatherite padding, hydraulic gaslift, lockable tilting mechanism, small five star nylon fiber base, P. U. Coated castors and as per approval.		Each	22	To lina Mot	may cott
7	Guest perennial chair of Chairister brand or equivalent as approved Top leather integrated with moulded foam medium seat and back with H/Rest cushion having fire retarding properties, laminated over 3D molded ply shell vinyle Backing, P.U Arms, M. S. pipe sled base in black epoxy coating W/Rubber Boots and as per approval.	244	Each	20		

Project: Peshawar	Sustainable Bus Rapid Transit Corridor		F	tura Da	4-il (Ch	aciro)
Calculatio Trans Pes	ns for shawar Office		ruiiii	ture De	etail (Ch	iairs)
Sr.No	Description	Item Code	Unit	Quantity	Rate	Amount
8	Two seat sofa W/Arms of Chairister brand or equivalent as approved (officers) Leatherite upholstered high resilience slab stock foam over springs, duly held together with elastic bands and jute covering for added protections, support and durability. Detachable arms rest cushioned separately with hard outer covering and as per approval.		Each	10	To the Pesha	the state of the s
	Total Amour	nt(PKR)			an Mobility	

Project: Peshawar Sustainable Bus Rapid Transit Corridor **Record Room** Calculations for Trans Peshawar Office Item Amount Sr.No Unit Quantity Rate Rs. Description Code Record room Providing, making and fixing storage cupboards in record room made of 10 mm thick double sided laminated MDF with 1 Sft 1168 PVC lipping and perthal wood as per attached drawings and approval, complete in all respect. Providing, making and fixing cupboard shutter made of 16mm thick local A grade double sided laminated MDF with PVC

Total Amount(PKR)

Sft

160

2

lipping, 62 No. kitchen hinges and 43 No. solid SS handles and 3 coats of paint

complete in all respect

Project:
Peshawar Sustainable Bus Rapid Transit Corridor

Rollup I
Calculations for

Trans Peshawar Office

Rollup Blinds, 12mm thick glass and Electrical Appliances

Sr.No	Description	Item Code	Unit	Quantity	Rate Rs.	Amount
	Rollup's					
1	Providing and fixing 2600SFT of Roll-up window blinds for 84 No. of windows of approved colour, and specifications, of Imported chain operated Roller blind with approved sample including wastage, lifting, etc, complete as per instruction of the Engineer.		Sft	2600	GP 8:	sh _d
	12 mm thick glass wall and doors					
2	Providing & making and fixing 18 No. of glass doors (8 No. in the stair & lift lobby & 4 No. in Server Room and 6 in back side stairs) using 12mm thick clear glass, with approved frosted film pattern, having 1 1/2" x 4" silver powder coated aluminum top and bottom rail, including approved best quality of frost film & hardware, floor hinges, custom made S.S.handle, door lock etc. as approved by the Engineer, complete as per details/ drawing and as directed by the Engineer.		Sft	378	The Gram Mob	my cod
3	Providing and fixing 12mm thick Glass for partition wall in stairs, lift lobby and for server room with 2mm thick aluminum H section at bottom and top including best approved quality frost film & hardware, latches PVC/ rubber gaskets, silicon etc. as approved by the Engineer, complete in all respect.		Sft	457		
4	Providing and fixing 3" thick mdf wall made of local A grade 10mm thick mdf pasted on both sides a wooden frame of 2' x 2' wooden frame made of 1" x 2" thick perthal wood with 3 coats of ICI or equivalent paint as approved, complete in all respect.		Sft	108		
5	Providing and fixing MultiBio 800-H (ZKTeco) Multibiometric access control and time attendance terminal with magnetic lock etc or equivalent as approved by the engineer complete in all respect (Face recognizable). Providing data (CAT6) along with all accessories required for connectivity and electrical cable to the destination required, Data cables will terminate in the server room and electrical wires need to be extended to the main electrical board or as instructed by the electrical engineer. The system has to be operationalized in all respect to the employer satisfaction.		Each	9		

Project:
Peshawar Sustainable Bus Rapid Transit Corridor

Calculations for
Trans Peshawar Office

Sr.No Description

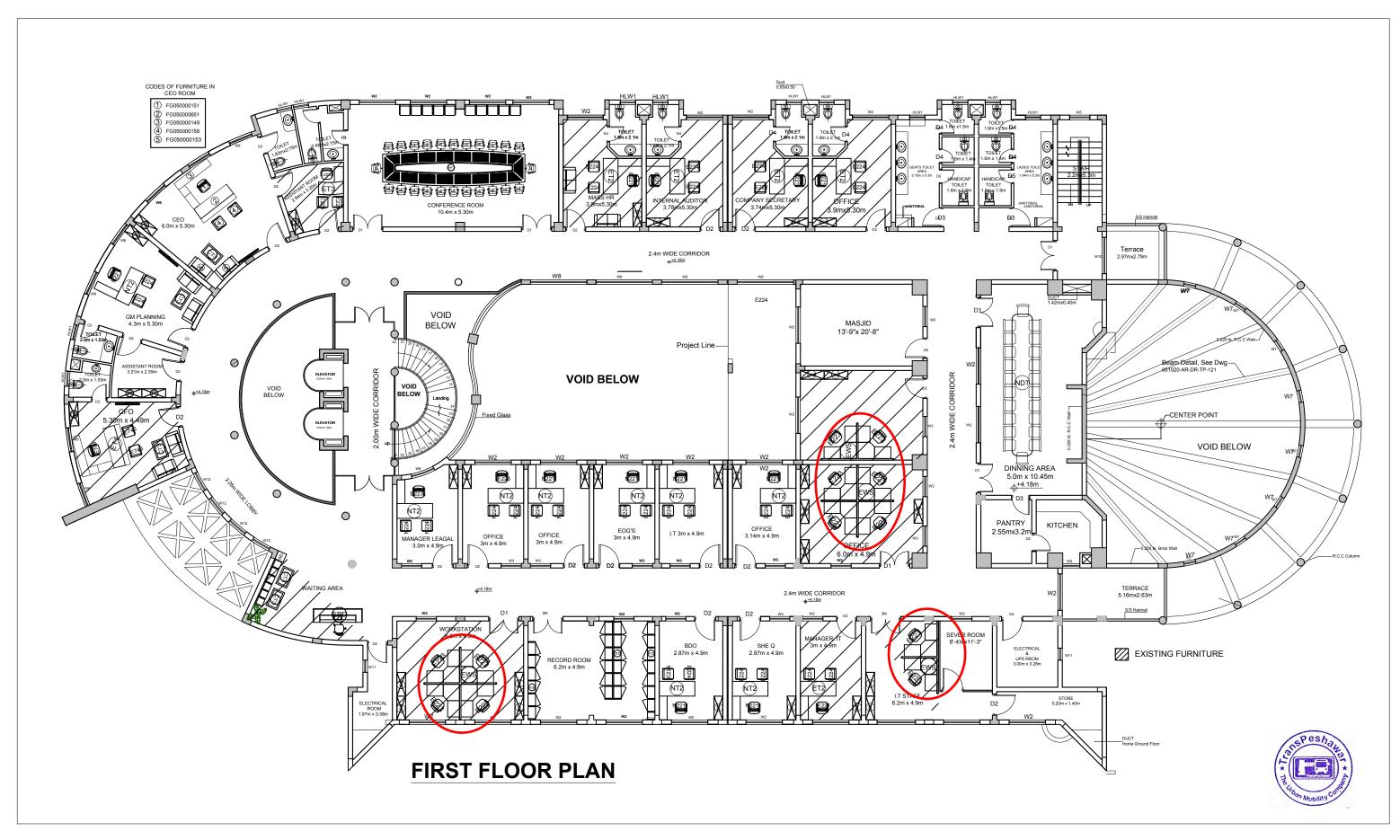
Fixing of the existing 4 persons work station in such a way by converted them in to 2 sets of 2 persons work station to be adjusted in 2 different offices e.g., IT staff office and one other office in front of dining room on 1st floor and thereby making of 12-6" x 4'-0" support wall for one set of 2 persons workstation, made of super gloss mdf sheet with Ashwood lipping, as approved, complete in all respect.

LED's

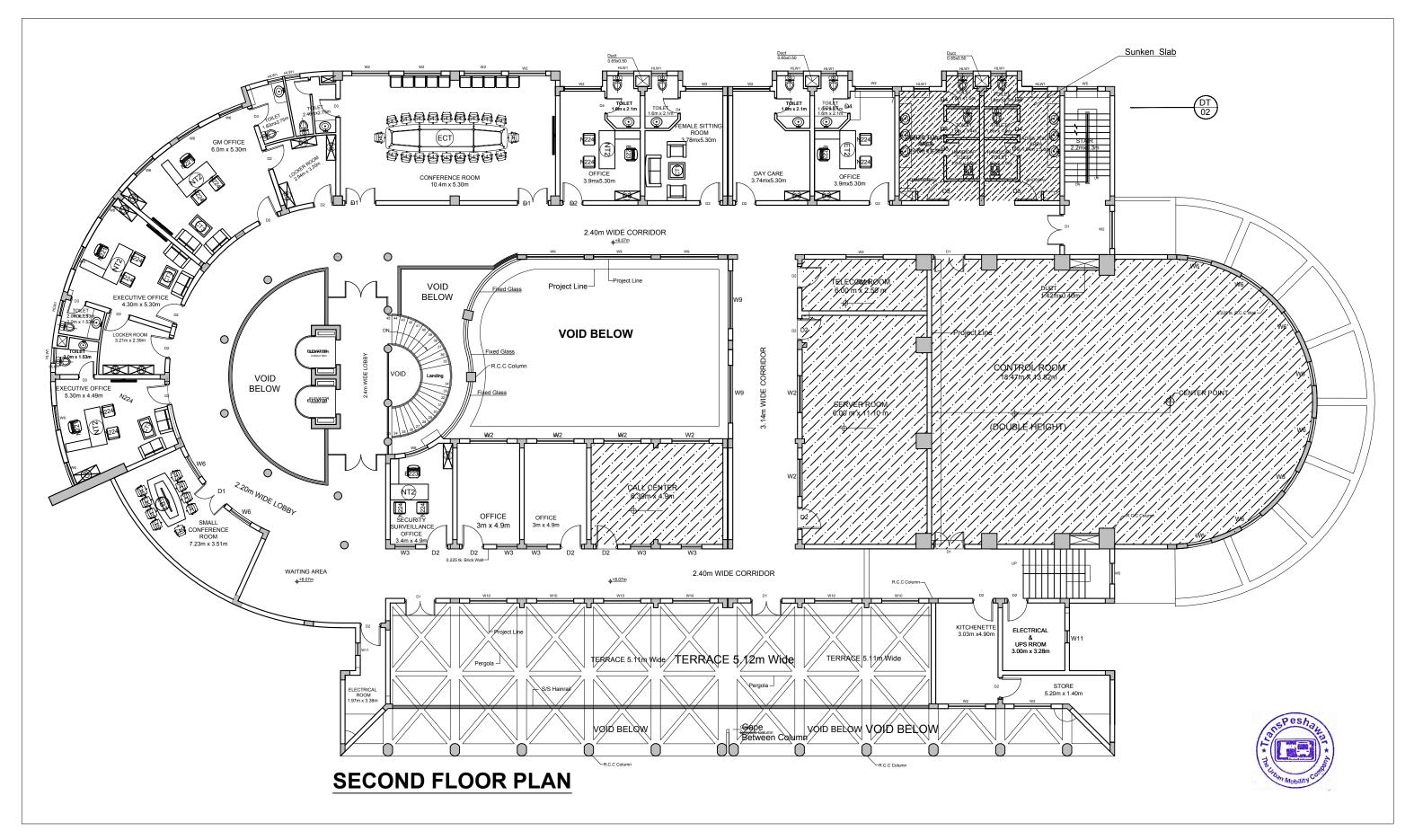
Providing and fixing 60" Sony smart LED Screen or Fourivalent as approved from an authorized dealer

Fach 3

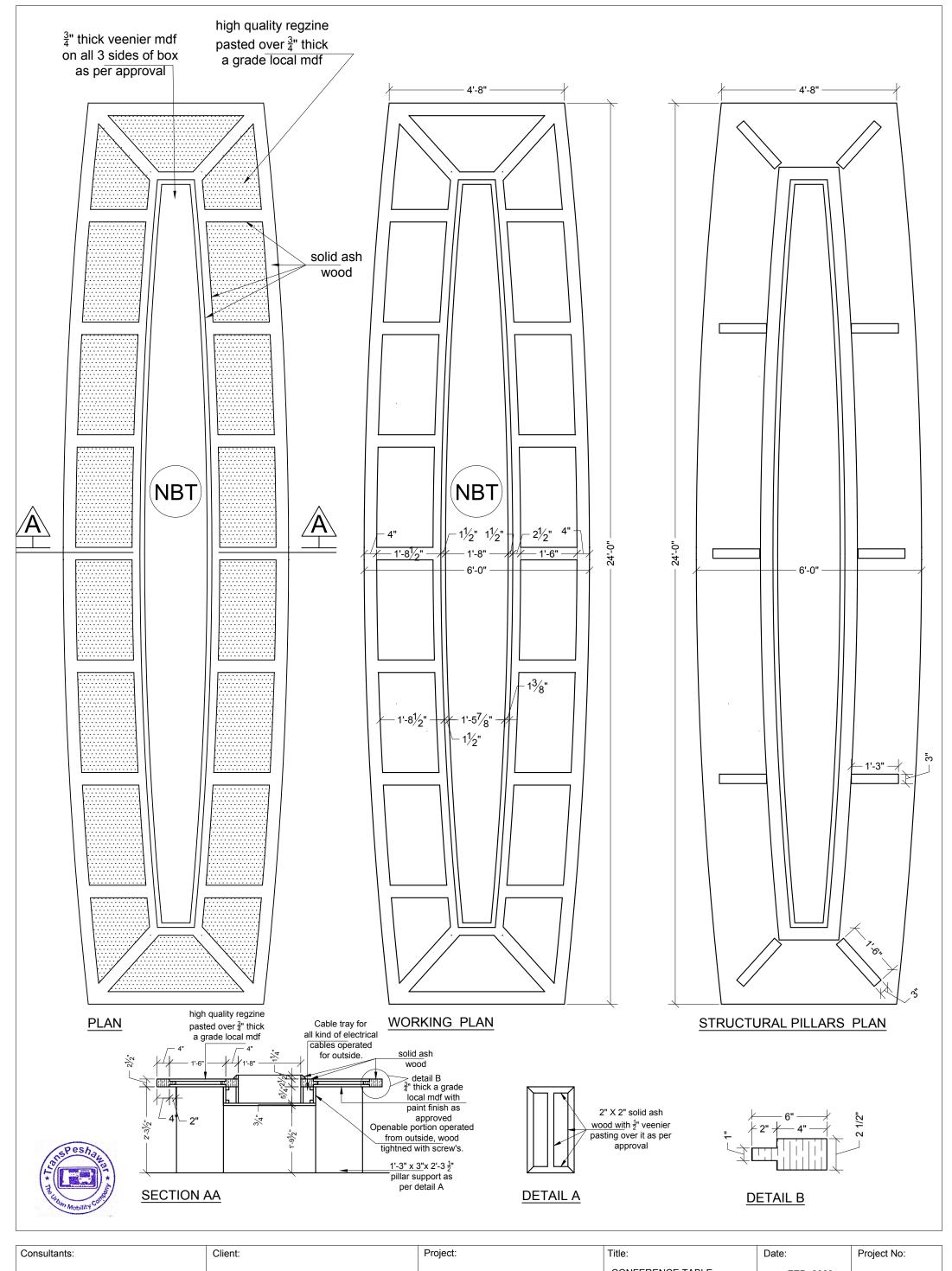
		Code			11010 1101	
6	Fixing of the existing 4 persons work station in such a way by converted them in to 2 sets of 2 persons work station to be adjusted in 2 different offices e.g. IT staff office and one other office in front of dining room on 1st floor and thereby making of 12'-6" x 4'-0" support wall for one set of 2 persons workstation, made of super gloss mdf sheet with Ashwood lipping, as approved, complete in all respect.		job	1	ePes e.l.	hay to
	LED's					
7	Providing and fixing 60" Sony smart LED Screen or Equivalent as approved from an authorized dealer with warranty cards and payments slips.		Each	3	an Mobili	n _c c.
8	Providing and fixing 48" Sony smart LED Screen or Equivalent as approved from an authorized dealer with warranty cards and payments slips.		Each	3		
	Multi Media Projector, Sound System & Refrigerator					
9	Providing, installing, testing and commissioning of Dahua made video conferencing system model No. DH-VCS-TS51A0 or equivalent in main board room as per the specs attached in Annex. A, complete in all respect.		Job	1		
10	Providing, installing, testing and commissioning of HTDZ brand China made, Model No. HB-350d Sound system or equivalent as approved with 20 No(built in speaker) mikes with 1 chairman mike (built in speaker) in main board room, complete in all respect.		Job	1		
11	Providing and fixing double door Heir Refrigerator, Model No. HRF-578TBP or Equivalent as approved, purchased from an authorized dealer along with warranty card.		Each	1		
12	Providing, fixing, testing and commissioning of SONY brand 4200 lumens projector VPL-EX575 Model or equivalent Multi media projector as approved along with china made 6'x8' screen in main Board room, complete in all respect.		Each	1		
	Total Amount	(PKR)				



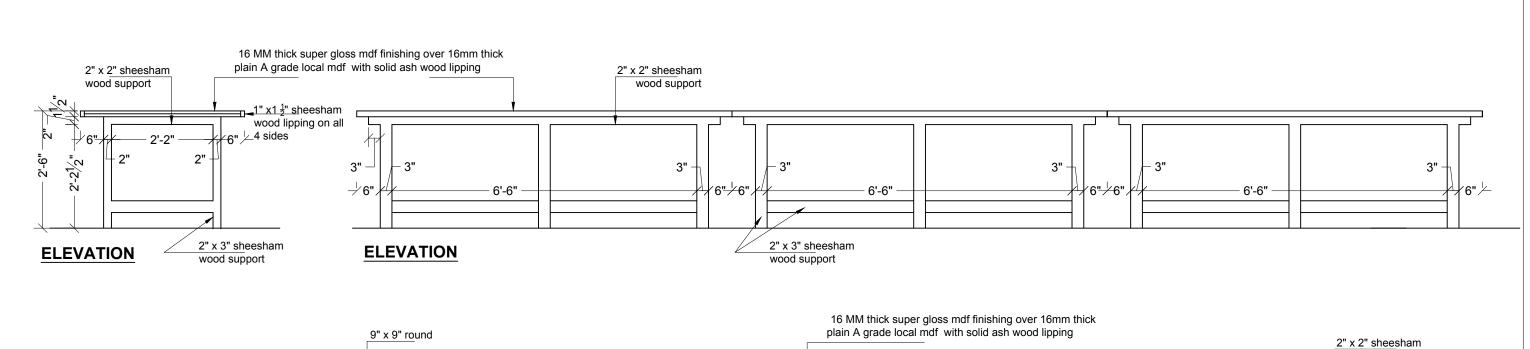
Consultants:		Client:		Project:	Title:	Date:	Project No:
ARCHITECTS: suite no. f-25, 4th floor new IT spinzar plaza, arbab road peshawar, pakistan	R'moon architecture		TransPeshawar (The Urban Mobility Company)	Renovation Work of Office, for	FIRST FLOOR PLAN	FEB, 2020	2001
	plus(pvt.ltd)			TransPeshawar	Status:	Scale:	Sheet No:
PH. +92(91)-5711547 e-mail: rmoonarchitectureplus@gma	il.com				CONSTRUCTION DRAWINGS	FTS	A05

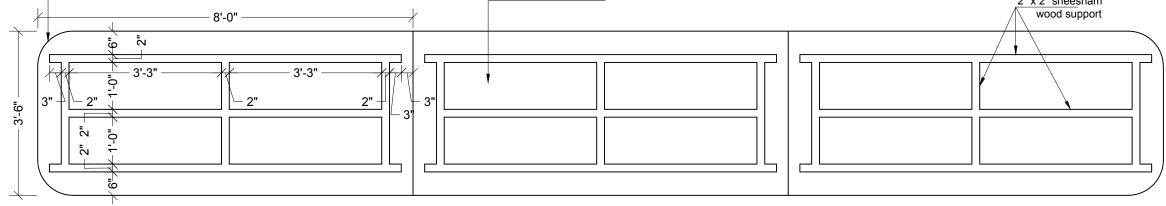


Consultants:	Client:	Project:	Title:	Date:	Project No:
ARCHITECTS: suite no. f-25, 4th floor R'moon architecture	TransPeshawar	Renovation Work of Office, for	SECOND FLOOR PLAN	FEB, 2020	2001
new IT spinzar plaza, arbab road peshawar, pakistan R MOON Grantecture R MOON Grantecture plus(pvt.ltd)	(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:
PH. +92(91)-5711547 e-mail: rmoonarchitectureplus@gmail.com			CONSTRUCTION DRAWINGS	FTS	A06



	Consultants:	Client:	Project:	Title:	Date:	Project No:	
	ARCHITECTS: suite no. 1-25, 4th floor new IT spinzar plaza, arbab road peshawar, pakistan R'moon architecture plus(pvt.ltd)	TransPeshawar (The Urban Mobility Company)	Renovation Work of Office for TransPeshawar	CONFERENCE TABLE	FEB, 2020	2001	
				Status:	Scale:	Sheet No:	1
	PH. +92(91)-5711547 e-mail: rmoonarchitectureplus@gmail.com			CONSTRUCTION DRAWINGS	FTS	A03	

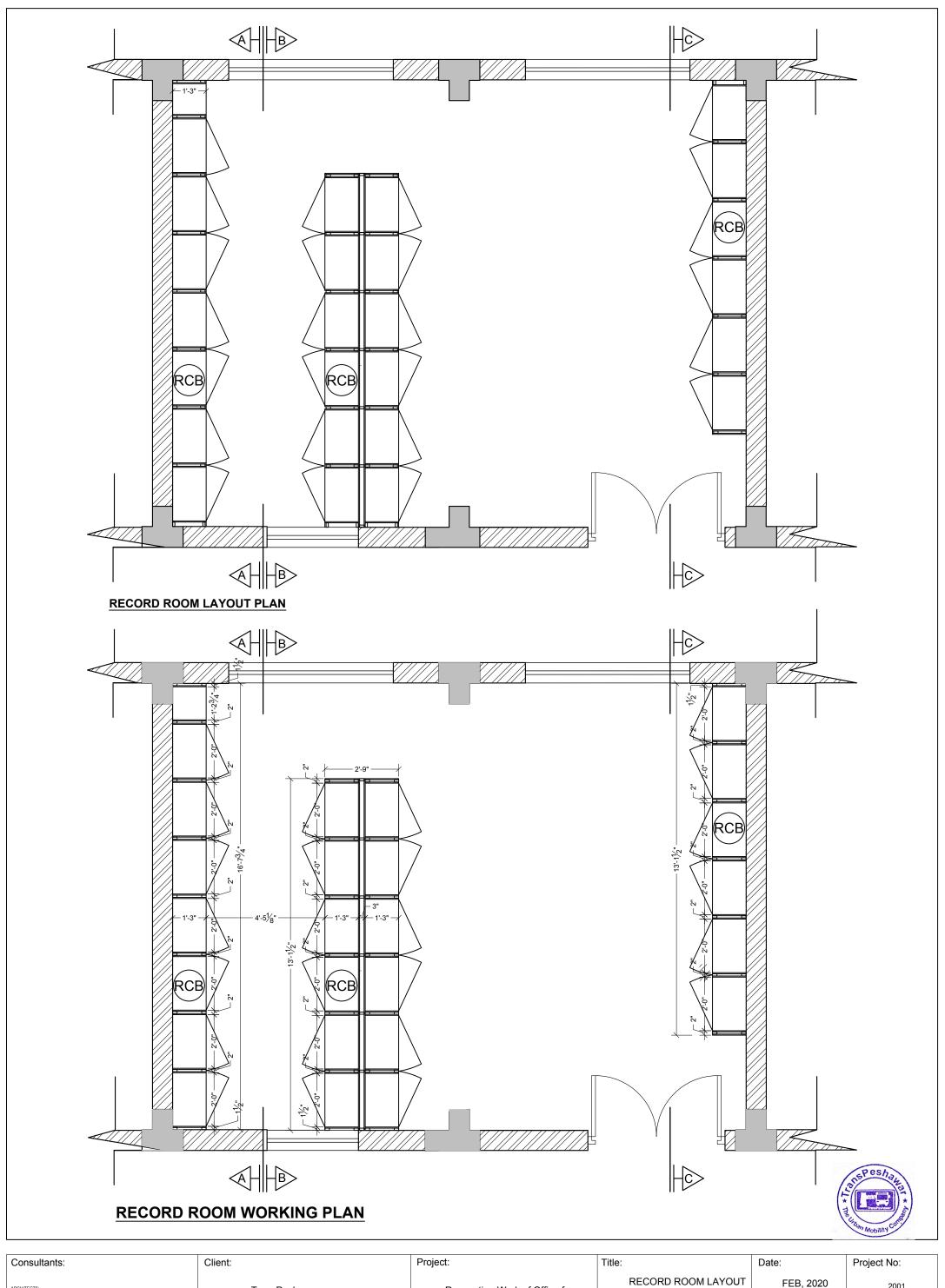




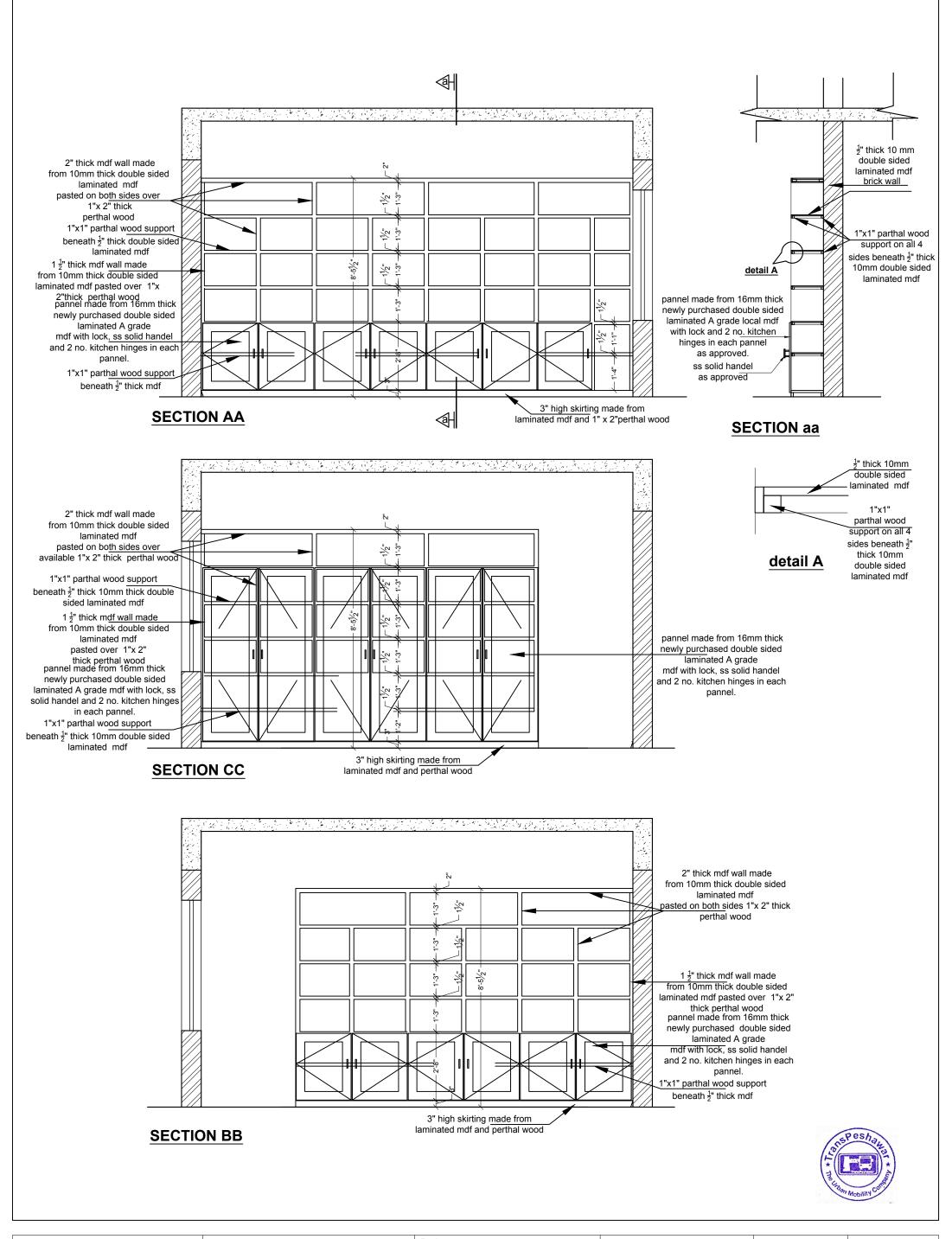
DINNING TABLE PLAN



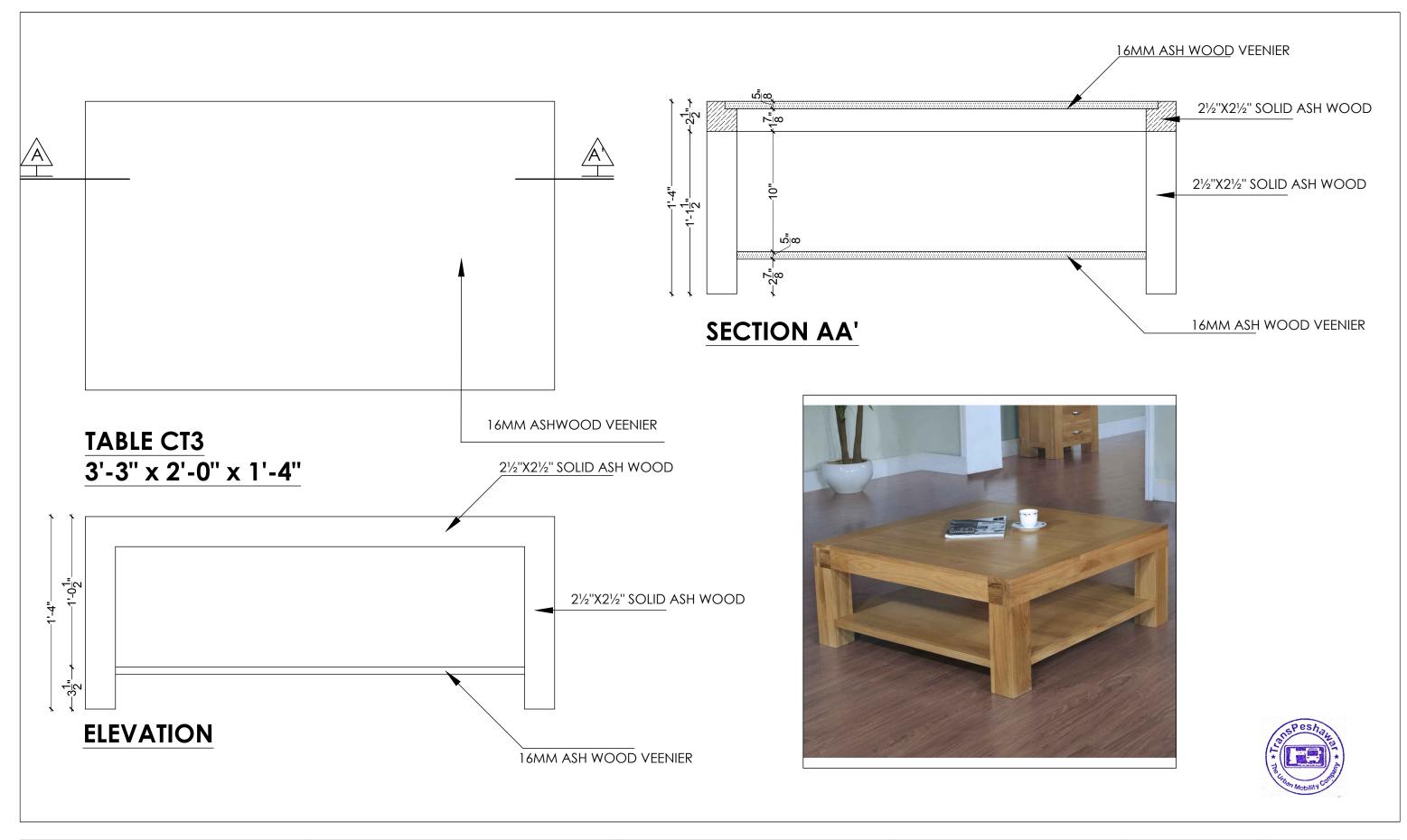
Consultants:		Client:		Project:	Title:	Date:	Project No:
ARCHITECTS: suite no. f-25, 4th floor	R'moon architecture		TransPeshawar	Renovation Work of Office, for	SECOND FLOOR PLAN	FEB, 2020	2001
new IT spinzar plaza, arbab road peshawar, pakistan plus (pvt.ltd)		(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:	
PH. +92(91)-5711547 e-mail: rmoonarchitectureplus@gmail	l.com				CONSTRUCTION DRAWINGS	FTS	A04



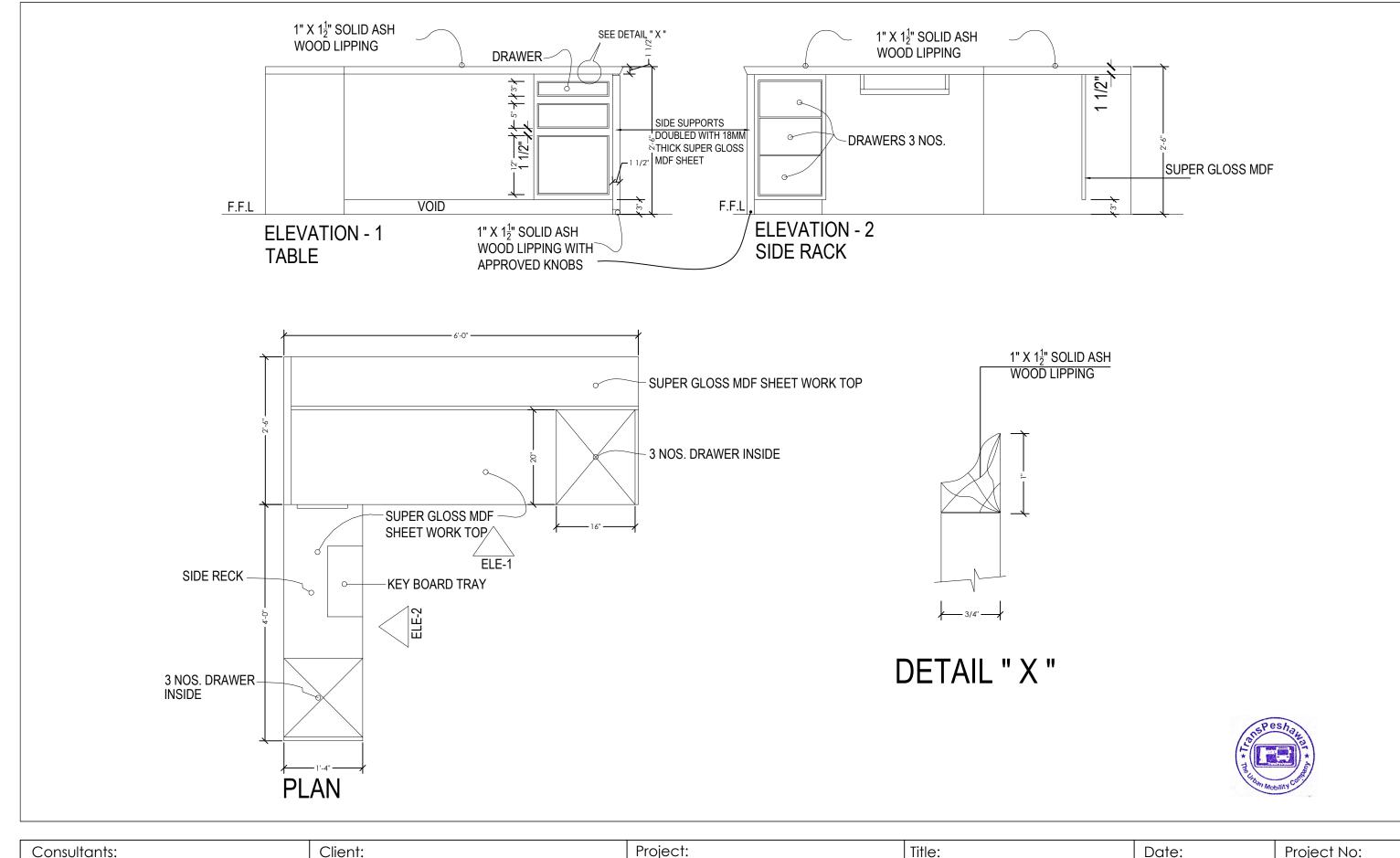
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ARCHITECTS: suite no. f-25, 4th floor	R'moon architecture	TransPeshawar	Renovation Work of Office for	RECORD ROOM LAYOUT	FEB, 2020	2001
new IT spinzar plaza, arbab i peshawar, pakistan		(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:
PH. +92(91)-5711547 e-mail: rmoonarchitectureplu	s@gmail.com			CONSTRUCTION DRAWINGS	FTS	A01



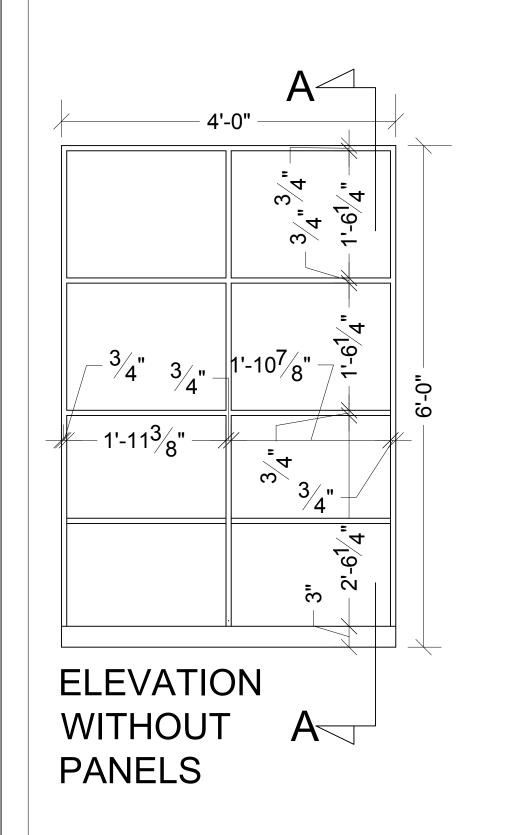
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ARCHITECTS: suite no. f-25, 4th floor R'moon architecture		TransPeshawar	Renovation Work of Office for	RECORD ROOM LAYOUT	FEB, 2020	2001	
new IT spinzar plaza, arbab road peshawar, pakistan plus (pvt.ltd)		(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:	
PH. +92(91)-5711547 e-mail: rmoonarchitectureplus@gmail.com				CONSTRUCTION DRAWINGS	FTS	A02	

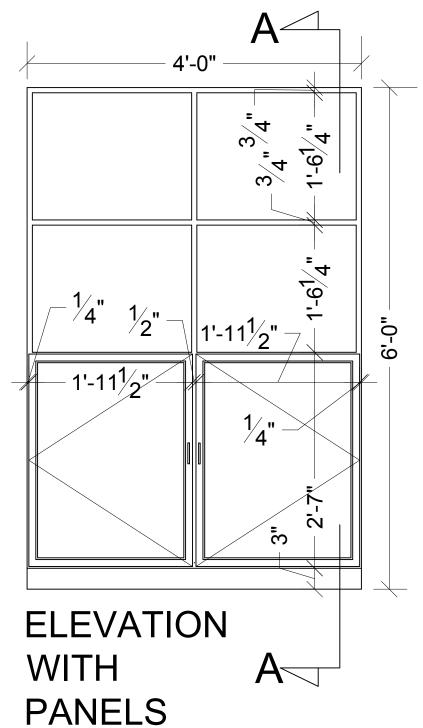


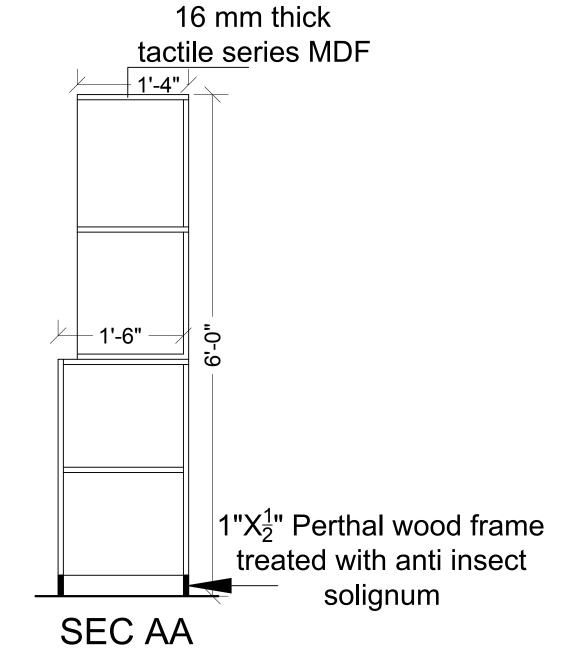
Consultants:	Client:	Project:	Title:	Date:	Project No:
ARCHITECTS: suite no. f-25, 4th floor R'moon architecture	TransPeshawar	Renovation Work of Office, for	COFFEE TABLE CT3	FEB, 2020	2001
new IT spinzar plaza, arbab road peshawar, pakistan plus (pvt.ltd)	(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:
PH. +92(91)-5711547 e-mail: rmoonarchitectureplus@gmail.com			CONSTRUCTION DRAWINGS	FTS	A05



Consultants:	Client:	Project:	Title:	Date:	Project No:
ARCHITECTS: suite no. f-25, 4th floor R'moon architecture	TransPeshawar	Renovation Work of Office, for	TABLE (NT2)	FEB, 2020	2001
new IT spinzar plaza, arbab road peshawar, pakistan plus(pvt.ltd)	(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:
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CONSTRUCTION DRAWINGS



A09

FTS

Consultants:		Client:	Project:	Title:	Date:	Project No:
ARCHITECTS: suite no. f-25, 4th floor	R'moon architecture	TransPeshawar	Renovation Work of Office, for	CUPBOARDS CB	FEB, 2020	2001
new IT spinzar plaza, arbab road peshawar, pakistan PH. +92(91)-5711547	plus(pvt.ltd)	(The Urban Mobility Company)	TransPeshawar	Status:	Scale:	Sheet No:

Integrated Full-HD Video Conferencing Endpoint



System Overview

This integrated full-HD video conferencing endpoint is a flagship video conferencing system and an ideal choice for small to mid-size meeting rooms. It adopts an integrated, compact, and exquisite design featuring a camera and codec. The endpoint supports dual 1080P full-HD image and OPUS audio coding technology, bringing you a life-like face-to-face experience.

Functions

Powerful built-in MCU

Embedded with a powerful MCU, it lets you create meetings without requiring the purchase of external expensive MCUs (Multi-point Control Units). The endpoint supports 4 sites 30fps @ 1080P or 8 sites 30fps @ 720P, which perfectly satisfies the needs of video conferences and enables efficient communication.

All-in-one Design, easy to deploy

This is a compact system combining a full-HD camera and codec. Its elegant design enables support for hanging mounts, wall mounts, and pendants, making it easy to deploy.

Outstanding full-HD PTZ camera

Benefiting from a 1/2.8" 2.1MP CMOS sensor, the system delivers a 60fps @ 1080P full-HD image. This features a fast, accurate, and stable auto vari-focal lens with up to 12x optical zoom, allowing for viewing wide angle images at a distance.

Strong network adaptability provides seamless experience for low-bandwidth connections

Thanks to our unique anti-packet loss technology, this model ensures normal operation of audio and video in the event of a 30% packet loss or 800ms delay. By supporting a new generation of H.265 encoding technology, the device adapts to different networking requirements and provides a 1080P full-HD image over low bandwidth connections.

- · Built-in MCU, supports max 4 sites 30fps @ 1080P, or 8 sites 30fps @ 720P
- · Integrated design, 60fps @ 1080P and 12x optical PTZ camera
- · Latest H.265 video encoding protocols provides 4K UHD display (optional)
- Unique anti-packet loss technology ensures normal operation of audio and video in the event of a 30% packet loss
- · Standard H.323 and SIP protocols. Record meetings onto USB drive
- · Provides a variety of conference call modes and installation modes, making it simple to operate and easy to maintain















Open standard, compatible interoperability

Conforming to ITU-TH.323 and IETF SIP communication standards, this model supports industry standard A/V encoding technologies and achieves seamless interconnection with products that meet international standards. Meanwhile, it achieves integration with security products which conforms to industry standard.

Rich functionality delivers easy use

it can connect to networks via Wi-Fi, making it easy to adapt to various meeting scenarios. An LED screen displays meeting site information (IP address) in real-time, providing easy maintenance.

Record meetings onto USB drives

Powerful meeting recording enables you to archive real-time meetings, which is crucial for meeting reviews. With this, all you need is a USB drive to record meeting video.

Accurate real-time information sharing

it supports 1080P full-HD dual stream to simultaneously transmit and receive video and documents. The device allows users to share and edit documents, PPTs, and other informationin real-time, providing effective visual communication.



Video Conferencing System |

Built-in MCU Multi-point Capability 4 sites 30fps @ 1080P, or 8 sites 30fps @ 720 Video Features Video Codec H.265, H.264 SVC, H.264HP and H.264BP Main stream: 1080P, 720P, D1 Demo stream: 1080P, 720P, D1 Frame Rate 5°60fps Video Bitrate 128kbit/s to 8Mbit/s Dual Stream Dual 1080P Audio Features Audio Codec OPUS, MP3, AAC-LC, G.719, G.711a and G.71: AEC (Acoustic Echo Cancellation), AGC (Automatic Noise Suppresself-Adaptive Post-filtering, Audio Error Correand Lip Sync Camera Features Image Sensor 1/2.8" 2.1MP CMOS Lens Horizontal Angle: 73", Zoom: 12x Optical Zoo Frame Rate 30/60fps @ 1080P, 30/60fps @ 720P Pan/Tilt Pan: 120" ~ +120" Tilt: 30" ~ +30" Communicaton Protocols ITU-T H.323, IETF SIP Transmission Protocols IPv4, T.CP/IP, RTP, SRTP, RTCP, HTTP, DNS, NTP and DHCP Other Protocols H.225, H.235, H.245 and H.460 Network Packet Loss Tolerance In the event of a 30% packet loss, the conference audio and video is unaffected Network Delay Tolerance In the event of a 30% packet loss, the conference audio and video is unaffected Normal conference processing for up to 800 nd clay Interfaces Video Inputs 1 x VGA, 1 x built-in camera input	
Multi-point Capability Video Features Video Codec H.265, H.264 SVC, H.264HP and H.264BP Main stream: 1080P, 720P, D1 Demo stream: 1080P, 720P, D1 Frame Rate 5°60fps Video Bitrate 128kbit/s to 8Mbit/s Dual Stream Dual 1080P Audio Features Audio Codec OPUS, MP3, AAC-LC, G.719, G.711a and G.71: AEC (Acoustic Echo Cancellation), AGC (Auton Gain Control), ANS (Automatic Noise Suppresself-Adaptive Post-filtering, Audio Error Correand Lip Sync Camera Features Image Sensor 1/2.8" 2.1MP CMOS Lens Horizontal Angle: 73°, Zoom: 12x Optical Zoo Frame Rate 30/60fps @ 1080P, 30/60fps @ 720P Pan/Tilt Pan:-120° ~ +120° Tilt:-30° ~ +30° Communication & Security Communication Protocols ITU-T H.323, IETF SIP Transmission Protocols H.225, H.235, H.245 and H.460 Network Peature Network Packet Loss Tolerance In the event of a 30% packet loss, the confere audio and video is unaffected Network Delay Tolerance Normal conference processing for up to 800 in delay Interfaces	
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Network Feature Network Packet Loss Tolerance In the event of a 30% packet loss, the confere audio and video is unaffected Network Delay Tolerance Normal conference processing for up to 800m delay Interfaces	
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Network Packet Loss Tolerance audio and video is unaffected Normal conference processing for up to 800m delay Interfaces	
Interfaces delay	nce
	ns
Video Inputs 1 x VGA, 1 x built-in camera input	
Video Outputs 2x HDMI	
Audio Inputs 2 x 3.5mm audio jack, 1 x USB	
Audio Outputs 2 x HDMI, 1 x 3.5mm audio jack	
USB Interfaces 2 x USB 2.0 host	
Network Interfaces 1 x RJ45 10/100/1000M self-adaptive network	k po

Certifications	
Certifications	CE (EN55032, EN50130-4, EN301489-1, EN301489-17, EN300328, EN62311) FCC (CFR 47 FCC Part 15 subpartB, 2016) UL (60950-1 & CAN/CSA C22.2 No. 60950-1-07)
Electrical	
Power Supply	DC 12V, 3A
Power Consumption	<=36W
Environmental	
Operating Conditions	0°C ~ +45°C (+32°F ~ +113°F)/ 10%~80% RH * Start up should be done at above 0°C (+32°F)
Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F) / Less than 95% RH
Construction	
Dimensions	245.0mm x 165.2mm x 156.0mm (9.65" × 6.50" × 6.14")
Net Weight	2.5kg (5.51lb)

6.0kg (13.22lb)

Gross Weight



Video Conferencing System |

Ordering Info	ormation	
Туре	Part Number	Description
Endpoint		Integrated Full-HD Video Conferencing Endpoint

Rear Panel







MultiBio 800-H

Multi-biometric Access Control and Time Attendance Terminal



MultiBio 800-H is a time attendance and access control terminal for face and fingerprint verification. Using ZK lastest ZKFACE 7.0 high-speed face recognition algorithm, it has extremely high verification speed and low error rate.

With its high-resolution infrared night vision light and professional color duo camera, the terminal can carry out quick verification in any environment. What is more, it supports face, fingerprint, user ID, password, RFID card (optional) and various combination methods, in order to satisfy the demands of different users. Moreover, the TCP/IP communication supports connection across internet segments. Its auxiliary input function can be used for linking to Fire Alarm.

Features

- 2.8-inch color display with graphical UI for easy operation
- ADMS Function(Optional)
- Multiple Verification Modes: Multi-verification methods (card is optional) providing user various choices
- Full Access Control Features: Anti-passback,
- access control interface for 3rd party electric lock, door sensor, exit button, alarm and doorbell
- Good Performance in Dark Environment, Infrared optical system enables machine to work well at night

Son Mobility

 Built-in auxiliary input with enh to link with wired detector or er

Specifications

Display	2.8 inch TFT LCD Color Screen
Face Capacity	1500(1:N) 4000(1:1)
Fingerprint Capacity	4000
Card Capacity	10,000(Optional) ID/Mifare or HID card
Transaction Capacity	100,000 Transactions
Algorithm Version	ZKFinger VX10.0 & ZKFace VX7.0
Communication	RS485, TCP/IP, USB-host
Access Control Interface	3rd Party Electric Lock, Door Sensor, Exit Button, Alarm, Doorbell, Wiegand In/Ou
Aux. Input	1ea for linkage function
Standard Function	DST, Automatic Status Switch, Anti-passback, Scheduled-Bell
Power Supply	12V DC,3A
Operating Temperature	0°C-45°C 20%-80%
Operating Humidity	20%-80%
SDK	Standalone SDK
Software	ZKAccess3.5

Optional Accessories



Exit Button



FR1200



Electric Lock



Alarm

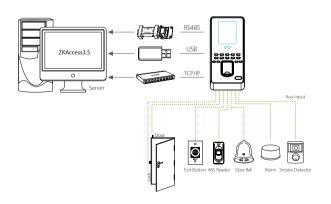


Sensor

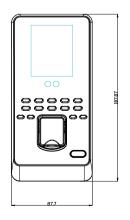


RFID Reader

Configuration



Dimensions (mm)































VPL-EX575

4,200 lumens XGA high brightness compact projector





Overview

Present clear, bright images, with flexible connectivity and low running costs

The VPL-EX575 projector is ideal for mid-sized classrooms and meeting rooms.

Quiet, compact and powerful, it delivers XGA images with 4,200 lumens color light output and high 20,000:1 contrast ratio that can be seen clearly even in bright rooms and with larger projection screens, with Sony's 3LCD technology assuring natural, vivid colors. Image quality is further improved compared with previous models, with a new colour/white balance setting for crisp reproduction of on-screen text and a new 'Vivid' picture mode ensuring even richer, more vibrant colours.

The VPL-EX575 is an ideal partner for today's integrated AV/IT environments, expanding your connectivity options with dual HDMI ports and Direct USB Display connection. A convenient input label function makes life simpler, confirming on screen the name of connected devices.

Add the VPL-EX575 to a network and see presentations from up to four connected PC/Mac computers simultaneously. Slip in an optional Wi-Fi dongle and present directly wirelessly from laptops.

A range of energy-saving features plus up to 10,000 hours recommended lamp replacement time contribute to low ownership costs. Routine maintenance is quick and easy with a convenient rear lamp access feature.

Features

Bright, clear images with maximum 4,200 lumens color light output With a 4,200 lumen maximum light output (in high mode), the VPL-EX575 delivers crisp, high-contrast presentations that can be seen clearly in bright rooms or on larger screens. There's a choice of three brightness modes to suit any environment, from bright daylight to darkened rooms.

3LCD BrightEra™ technology

The efficient 3LCD panel system is enhanced by advanced BrightEra™ technology for impressively bright, consistent, high resolution images with excellent color accuracy and impressive reliability.

XGA resolution

XGA (1024 x 768) 4:3 display resolution gives plenty of crisp detail: ideal for making presentations direct from a laptop, mobile device or DVD player.



Powerful 16W audio

The powerful built-in 16W speaker (mono) lets your audience hear video soundtracks with no need for additional amplification.

Energy efficient with long-lasting lamp life up to 10,000 hours

High-performance lamp technology offers reduced ownership costs plus reduced maintenance, with a recommended lamp replacement time of approx. 10,000 hours (with brightness in low mode - may vary depending on environment or how the projector is used).

Advanced energy-saving features

Advanced lamp technology enables a range of energy-saving features. Auto Light Dimming mode saves energy when the projector is left on without being used. Auto Picture Mode automatically adjusts light output to suit the projected scene. Touching a button on the remote mutes the picture temporarily, dramatically reducing power consumption.

Quiet operation

Near-silent projector fan ensures discreet, unobtrusive operation in classrooms and meeting rooms.

Lamp Mode: High 35dB / Standard 33dB / Low 29dB



Save time and start presenting faster: the projector automatically turns on when signals are detected from a connected PC.

Quick go

Don't waste time when you're in a hurry to leave the room: turn off the projector and unplug immediately, with no lengthy waiting for cool-down.

Networked and wireless presentations

Project presentations from PC or Mac via network and wireless. Up to four users can project PC/Mac images simultaneously, while up to eight users can connect to one projector. The Projector Station for Network Presentation application for Windows/Mac is included.

Control and management from any networked PC

Projector functions and status can be managed and monitored remotely from any networked PC, using the included Projector Station for Network Control application.

Remote Control app for iOS/Android

Download the free Projector Remote app and control the projector from anywhere in the room with your handheld device, with simple easy-to-read buttons on your phone or tablet screen.

USB media viewer

Slip in a USB drive and display photos, images and graphics with no PC needed.

Dual HDMI inputs

Two HDMI input terminals make it easy to connect HDMI-equipped devices like PCs and media streaming devices.

IP control sync for easy system expansion

Control signals (power on/off, input select) from a master projector can be distributed over an IP network to additional 'sub' projectors.

USB Display function for easy one-cable PC connection

Present pictures and audio* from a connected PC or Mac with a single USB cable - you





don't even need to install a software driver.

* There may be a time lag between video and audio. For low-latency applications it is recommended to use projector's line-in or HDMI-in connection.

Customized input naming labels

Define your own input labels like 'BD Player', 'PC' and 'Document Camera', making it easier to see on screen what devices are connected and being used.

Easy maintenance

Convenient lamp access at the rear of the projector body makes lamp swaps simpler when the projector is hanging from a ceiling mount.

Specifications

Display System	
Display System	3 LCD system
Display device	
Size of effective display area	0.63" (16mm) x 3 BrightEra LCD Panel Aspect ratio 4:3
Number of pixels	2,359,296 (1024x768 x 3) pixels



Projection lens	
Focus	Manual
Zoom Powered/Manual	Manual
Zoom - Ratio	Approx. x 1.6
Throw Ratio	1.40:1 to 2.27:1

Light source	
Туре	Ultra high pressure mercury lamp
Wattage	225 W type

Recommended lamp replacement time *3		
Lamp mode: High	4000 H	
Lamp mode: Standard	6000 H	
Lamp mode: Low	10000 H	

Filter cleaning / replacement cycle (Max.)	
Filter cleaning / replacement cycle (Max.)	



Screen size	
Screen size	30" to 300" (0.76 m to 7.62 m) (measured diagonally)
Light output *1	
Lamp mode: High	4200 lm
Lamp mode: Standard	3000 lm
Lamp mode: Low	2300 lm
Color light output *1	
Lamp mode: High	4200 lm
Lamp mode: Standard	3000 lm
Lamp mode: Low	2300 lm
Contrast ratio (full white	e / full black) *2
Contrast ratio (full white / full black) *2	20000:1
Speaker	
Speaker	Speaker 16 W (monaural)
Displayable scanning fre	equency
Horizontal	15 kHz to 92 kHz
Vertical	48 Hz to 92 Hz
Display resolution	
Computer signal input	Maximum display resolution: 1600 x 1200 dots, fV:60Hz
Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i,1080/60p, 1080/50p
Color system	
Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60

Keystone Correction (Max) *4

Vertical +/-30 degrees





San Mobility

OSD languages	
OSD languages	27-languages (English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Greek, Czech, Slovakia, Romania)

INPUT OUTPUT (Computer/Video/Control)

INPUT B
INPUT C
INPUT D

INPUT A	RGB / Y PB PR inputconnector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack
INPUT B	RGB input connector: Mini Dsub 15 pin female Audio input connector: Stereo mini jack
INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
INPUT D	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
S VIDEO IN	S Video input connector: Mini DIN 4-pin
VIDEO IN	Video input connector: Phono jack
ОՄТРИТ	MONITOR output connector: Mini D-sub 15 pin female Audio output connector: Stereo mini jack
REMOTE	D-sub 9-pin male/RS232C
LAN	RJ-45, 10BASE-T/100BASE-TX
USB	Type-A
USB	Type-B
MICROPHONE IN	Microphone jack: Mini Jack

Acoustic Noise *5 Lamp mode: Low 29dB

Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) /20-80% (no condensation)

Operating temperature / Operating humidity



Storage temperature / Storage humidity		
Storage temperature /Storage humidity	-10 °C to +60°C (14°F to +140°F) /20% to 80% (no condensation)	
Power requirements		
Power requirements	AC 100 V to 240 V, 3.4 A to 1.5 A, 50 Hz / 60 Hz	
Power consumption		
AC 100 V to 120 V	Lamp mode: High 333 W	
AC 220 V to 240 V	Lamp mode: High 320 W	
Power Consumption (Standby Mode)		
AC 100 V to 120 V	0.50 W (when "Standby mode" is set to	



Power Consumption (Networked Standby Mode)

"Low")

"Low")

0.50 W (when "Standby mode" is set to

AC 100 V to 120 V	5.5W (LAN) 6.0W (optional WLAN module) 6.2W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")
AC 220 V to 240 V	5.8W (LAN) 6.3W (optional WLAN module) 6.6W (ALL Terminals and Networks Connected, when "Standby Mode"is set to "Standard")

Standby Mode Networked Standby Mode Activated

Standby Mode Networked	Approx 10 Minutes
Standby Mode Activated	Approx. 10 Minutes

Wireless Network(s) On/Off Switch

Wireless Network(s) On/Off	 Press the MENU button, then select
Switch	[Connection/Power] [WLAN Settings] [WLAN Connection] Select On or Off

Heat dissipation

AC 100 V to 120 V

AC 220 V to 240 V



AC 100 V to 120 V	1136 BTU/h
AC 220 V to 240 V	1092 BTU/h
Dimensions (W x H x D)	
Dimensions (W x H x D) (without protrusions)	Aprox. 365 x 96.2 x 252mm (14 3/8 x 3 25/32 x 9 29/32")
Mass	
Mass	Approx. 4kg (8.8 lb)
Supplied accessories	
Remote commander	RM-PJ8
Wireless LAN Module	
Optional Lamp	LMP-E221
Optional Accessories	IFU-WLM3



Notes	
*1	The values are estimate
*2	This value is average with lamp dimming.
*3	The figures are approximate. They vary depending on the environment or how the projector is used.
*4	The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.
*5	The figures are approximate. They vary depending on the environment or how the projector is used.
Environmental notice for customers in the USA	Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see www.sony.com/mercury for additional information.



Gallery











