



INDIAN INSTITUTE OF ASTROPHYSICS

IIND BLOCK, SARJAPUR ROAD, KORAMANGALA,
BANGALORE-560 034

PUBLIC TENDER NOTICE NO: RFT/IND/012/09-10 DATED 15TH APRIL 2010

The Director, Indian Institute of Astrophysics invites Quotations/Bids from reputed firms for following/specification. Hence the firm (s) interested in offering bids should have executed similar items/works.

Sl.No.	Description In Brief	Quantity	E.M.D (refundable) Rs.	Tender Fee (non-refundable) Rs.
1.	CODE IS 14665-Supply installation and Commissioning of 500 kgs (6 passenger) electrical Traction LIFT For the 1.3 meter telescope enclosure Building at VBO, Kavalur as per the Enclosed RFP and schematic drawings.	One No.	37,500/-	300/-

Note: The Tender documents with Specification details are available on IIA website www.iiap.res.in/tenders.htm. Hence the interested tenderers may at their option download the same from our website (as no hard copies of Tender documents is/are provided from this office) and submit their offers along with EMD (refundable) & Tender fee (non-refundable) prescribed therein, only in the form of Demand Draft drawn in favour of Director, IIA. However, your offers with Technical bids should be superscribed in separate envelopes and Commercial bids should be superscribed in separate envelopes mentioning the tender notice no., Date of opening, and submit both the Bids in a sealed envelopes addressed in favour of Director, Indian Institute of Astrophysics, Bangalore – 560 034.

02. The firms who fulfill the following requirements shall be eligible to submit their bids. Joint ventures are not acceptable.

(a) Tendering Company shall be professionally managed and equipped with facility for the design, fabrication, testing, supply and maintenance of tendered items.

(b) The tenderers should have completed, in the last 3 financial years (i.e., current year and two previous financial years) at least one similar single work for a minimum value of Rs.15 lacs.

(c) The total contract amount received during the last 3 financial years, and the current financial year should be minimum of 150% of the above mentioned value. The tenderer should submit Audited Balance Sheet duly certified by the chartered accountant

to this effect. They should also submit Bankers Solvency Certificate to a minimum of Rs.15 Lacs.

(d) The Private Body Contractor shall be required to produce the TDS Certificate indicating the Income Tax deducted by the client for the execution of similar items, completed individually of value not less than Rs.10 Lacs.

03. Both Technical and Commercial/price Bids supported by the above information should be submitted in Sealed envelope duly superscribed with the name of work. The completed Bids will be received by this office **upto 15.00 Hrs. on 12th May 2010.**

04. If any information furnished by the tenderers is found incorrect at a later stage, the firm shall be liable to be debarred from tendering and taking up of work in IIA. The Institute reserves the right to verify the particulars furnished by the tenderers.

05. The interested tenderers may contact Mr.P.Madan Mohan Kemkar (Ph.No.25530672 Ext: 381 or Cell 9663375426) to discuss Technical Clarification and Shri.Y.K.raja Iyengar for Commercial Clarification, if any, with prior permission on or before 6th May 2010, before submitting both Technical / Price bids.

06.The firms should submit both Technical and Commercial/Price bids separately superscribed along with Tender fee of prescribed amount **upto 15.00 Hrs. Latest by 12th May 2010.** The Technical Bids will be opened in presence of the bidders or their authorized representatives **at 15.30 Hrs. on 12th May 2010.**

07. Incomplete Technical Bids are liable for rejection. Commercial/price bids will be considered only for the Qualified Technical Bidders.

08.Late / delayed offer will not be considered.

09.IIA is not responsible for any delay / loss of documents in transit.

10. No bids will be considered if prescribed Tender Fee is not found with Technical bids Part - I.

11.The Commercial/Price Bids will be opened on **1st June 2010 at 15.30 Hrs.** of those firms technically qualified in the presence of such bidders or their nominated representatives. If any changes in the opening date it will be intimated to the bidders.

12. IIA reserves the right to reject any or all tenders without assigning any reasons.

Administrative Officer
IIA, Bangalore-34

TERMS AND CONDITIONS OF CONTRACT

1. DEFINITIONS :

- a.) The terms 'Purchaser' shall mean the Director, Indian Institute of Astrophysics, Bangalore -560 034.
- b.) The term 'Contractor' shall mean, the person, firm or company with whom or with which the order of stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the contract.
- c.) The 'Stores' shall mean that contractor agrees to supply under the contract as specified in the Purchase Order including erection Plants and machinery and subsequent testing, should such as condition be included in the Purchase Order.
- d.) The terms 'Purchase Order' shall mean the communication signed on behalf of the Purchaser by an Officer duly authorized intimating the acceptance on behalf the Purchaser on the terms and conditions mentioned or referred to in the said communications accepting the tender or offer of the contractor for supply of stores or plant, machinery or equipment or part thereof.

2. PRICES :

Tenders, offering firm prices will be preferred, where a price variation clause is insisted upon by a tenderer, quotations with a reasonable ceiling should be submitted. Such offers should variably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

3. DUTY EXEMPTION :

- (a.) Excise duty exemption certificate will be provided if considered against the categories of items tendered, under the Govt. of India Notification No. 10/97 valid till 2011.

4. SECURITY DEPOSIT:

On acceptance of Tender, the Contractor shall, at the option of the Purchaser and within the period specified by him deposit with him in cash or any other form as the Purchaser may determine, Security deposit not exceeding ten percent of the value of the contract as the Purchaser shall specify. If the contractor is called upon by the purchaser to deposit 'Security' and the contractor fails to provide the security within the period specified, such failure shall constitute a breach of the contract and purchase shall be entitled to make other arrangements for the re-purchase of the stored contracted for at the risk of contractor in terms of sub-clause (ii) and (iii) of clause 10 (b) hereof and/or to recover from the contractor damages arising from such cancellation.

5. GUARANTEE AND REPLACEMENT :

- a.) The contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material workmanship and performance.
- b.) For a period of (12) twelve months or more according to the company after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use arising from faulty stores, design or workmanship, contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the store or any part thereof are faulty.
- c.) If in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser provided the notice informing the contractor of the defect is given by the purchaser in this regard within the said 14 months from the date of acceptance thereof.
- d.) Should the contractor fail to rectify the defects, the purchaser shall have the right to reject or replace at the cost of the contractor the whole or any portion of the defective stores.
- e.) The decision of the purchaser, notwithstanding any prior approval of acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the contractor are defective or any defects has developed within the said period of 12 months or as to whether the nature of the defectives required renewal or replacement shall be final, conclusive and binding on the contractor.
- f.) To fulfill guarantee conditions outlined in Clause 5(a) to (d) above, the contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 10% of the value of the contract along with first shipment documents. On the performance and completion of the contract in all respects, the Bank Guarantee will be returned to the contractor without any interest.
- g.) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of stores at Purchaser's site.
- h.) Even while the 12 months guarantee applied to all stores in case where a greater period is called forth by our specifications then such a specification shall apply; in such cases the period of 14 months referred to in Para 5(b) and (c) shall be 'asked for' guarantee period plus two months.

6. PACKAGING, FORWARDING AND INSURANCE :

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packing shall be done by and at the expenses of the contractor. The Purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the contractor and the Purchaser shall pay only for such stores as are actually received in good condition, in accordance with contract.

7. TEST CERTIFICATE :

Wherever required Test Certificate should be sent along with the relevant dispatch documents.

8. ACCEPTANCE OF STORES :

a) The Stores shall be tendered by the contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expenses and cost.

b) It is expressly agreed that the acceptance of stores, contracted for is subject to final approval by the Purchaser, whose decision shall be final.

c) If, in the opinion of the Purchaser all or any of the stores that do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at the price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the contractor.

d) If the whole or any part of the store supplied are rejected in accordance with Clause No.8(c) above, the Purchaser shall be at the liberty, with or without notice to the Contractor, to purchase in the open market at the expenses of the Contractor, stores meeting the necessary performance and quality contracted for in place of these rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

9. REJECTION OF STORES :

Rejected stores will remain at the destination at the Contractor's risk and responsibility, if instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice or rejection, the Purchaser or his representative has, at his discretion the right to scrap or seal or consign the rejected stores to the Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

10. DELIVERY PERIOD :

a.) The delivery period of the stores stipulated in the purchase order shall be deemed to be the essence of the Contract, and delivery must be completed on or before the specified dates/period.

b.) Should the Contractor fails to deliver the stores or any consignment thereof within the period prescribed for such delivery, the Purchaser shall be entitled at his option either.

i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 2% of the price of any stores which the contractor has failed to deliver as aforesaid for each month or part of a month, during which the delivery of such stores may in arrears, or

ii) to purchase elsewhere, without notice to the Contractor on the account and at the risk of the contractor, the stores not delivered or others of similar description (where other exactly complying with the particulars are not, in the opinion of the purchaser readily procurable, such opinion being final) without canceling the Contract in respect of the consignment(s) not yet due for delivery or,

to cancel the contract or a portion thereof, and, if so desired to purchase or authorize the purchase of stores not so delivered or others of similar description (where other exactly complying with the particulars are not, in the opinion of the purchaser readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) and (iii) of clause 10 above, the Contractor shall be liable for any loss which the Purchaser may sustain on that account, provided that the re-purchase, or if there is an agreement to re-provide shall made within (6) six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall without prejudice to the right of the purchase to recover damages for breach of contract by the Contractor.

11. EXTENSION OF DELIVERY TIME :

As soon as it is apparent that Contractor delivery period/dates cannot be adhered to, an application shall be sent by the Contractor to the Purchaser. If failure, on the part of the Contractor to deliver the stores in proper time shall have arisen from any cause which the Purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final he may allow such additional time as he considers it to be justified by the circumstances of the case without prejudice to the Purchaser's rights to recover liquidated damages under clause 10(i)(ii) and (iii).

12. PAYMENT :

Contractor's bill will be passed only after the stores have been received, inspected and accepted by the Purchaser for payment

13. RECOVERY OF SUMS DUE :

Whenever there is breach of contract whether liquidated or not, money arising out of or under this contract against the contract, the Purchaser shall be entitled to recover such sum by appropriating, in part or whole, the security deposited by the Contractor, if a Security is taken against the contract. In the event of the Security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the contractor under this or any other contract with the Purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the Purchaser on demand the remaining balance due.

Similarly, if the purchaser has or makes any claims, whether liquidated or not, against the Contractor under any other contract with the purchaser, the payment of all money payable under the contract to the Contractor including the Security Deposit shall be withheld till such claims of the Purchaser are finally adjudicated upon and paid by the Contractor.

14. INDEMNITY :

The Contractor shall warrant and be deemed to have warranted that all stores supplied against this contract are free and clean of infringement of any patent, copy right or trade mark, and shall at all time indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by patent, registration of design or trade mark and shall take all risk of accidents of damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all the means used by him for the fulfillment of contract.

15. ARBITRATION:

In the event of any question, dispute or difference arising under these conditions contained in the purchase order in connection with this contract, (except as to any matters the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Institution or of some other person appointed by him. It will be no objection that the arbitrator is a Government Servant, that he has to deal with matter to which the Contract relates or that in the course of his duties as Government Servant he has expressed views on all or any of the matters in dispute binding on the parties of this Contract.

(a) IT IS TERMS OF THIS CONTRACT:

If the Arbitrator be the Head of the Institution.,

i) in the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor-in-office either to proceed with the reference himself, or to appoint another person as arbitrator, or,

ii) in the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Institution, to appoint another person as arbitrator or,

(b) If the Arbitrator be a Person appointed by the Head of the Institution:-

In the event of his death, neglecting or refusing to act, or resigning or being unable to act for any reason, it shall be lawful for the Institution either to proceed with reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator. Subject as aforesaid the Arbitration Act, 1940 and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Contractor the time for making a publishing the award. The venue of Arbitration shall be the place as the Purchaser. In his absolute discretion may determine. Work under the contract shall if reasonably possible, continue during Arbitration proceedings.

16. COUNTER TERMS AND CONDITIONS OF SUPPLIERS :

Where Counter Terms and Conditions/printed or cyclostyled conditions have been offered by the Supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof is obtained.

17. SECURITY FOR PURCHASER'S MATERIAL(S) :

Successful Tenderer will have to furnish in the form of a Bank Guarantee or any other form as called for by the Purchaser towards adequate security for the materials/property for the due execution of the Contract.

Request for Proposal

for

Supply, Installation, Testing and Commissioning of
500kg(6 passenger) Electrical Traction lift.

For

1.3 M Telescope - Enclosure Building

at

Vainu Bappu Observatory,

KAVALUR, Tamilnadu.

INDIAN INSTITUTE OF ASTROPHYSICS.

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SECTION - I

General Information

Introduction:

The Indian Institute of Astrophysics (IIA) is an autonomous organization under the Department of Science and Technology, Government of India, headquarters at Koramangala, Bangalore. The Institute conducts research in Astrophysics and allied subjects. IIA is setting up a 1.3 m optical telescope at Vainu Bappu Observatory (VBO), Kavalur, which is located 30kms from Vaniyambadi in the tropical Jawadi hill range of Tamilnadu.

The design of a suitable dome on top of a steel enclosure (building) to house this telescope is in process and there is a requirement for a 6 passenger lift to be installed within the steel enclosure of 1.3 m telescope building

Scope of work

The scope of work includes:

1. Verifying structural and space requirements for the steel building/enclosure, supply, installation, testing & commissioning of the Electrical Traction passenger lift for the 1.3 m Telescope enclosure building located in Kavalur, Tamilnadu. as per the specification and requirements noted below.
2. Obtaining all the statutory clearances/certificates from the competent authorities, if any.
3. Warranty maintenance and thereafter, annual (or periodic, as applicable) for the projected life of the lift

Project Site information

Place of work	Vainu Bappu Observatory Kavalur, Alangayam – 635704 Tamilnadu Phone: 04174 203014-15,16
Nearest Railway Station	Vaniambadi (Bengaluru – Chennai route)
Road Distance	about 170 Km from Bengaluru 30 km from Vaniyambadi
Altitude	800 MSL
Ambient temperature	10 ⁰ to 40 ⁰ C
Climate (year)	Tropical with high humidity (for at least 50% of year)
Latitude	12 ⁰ 35'N
Longitude	78 ⁰ 37'E

Vendor will be allowed to visit the observatory if required to evaluate the installation of lift work after obtaining prior permission from the institute.

Available scaffolding material at VBO, Kavalur will be provided during erection.

Power, water and workshop facility including drilling, welding etc will be provided by the institute to the working team.

The institute will provide food and accommodation at applicable rate for the installation team.

Background information/Introduction

An open lift is proposed within the 1.3m telescope enclosure (which is made of structural steel) having floors at 3 metre intervals up to a height of 9.5 metre, from ground floor level to the level of the third floor level. The lift shall be preferably of Machine Room Less (MRL) type. The lift shall have minimum door opening of 1 m width, and 2.1 meter head room, and must have a load capacity of 0.5 ton carrying six passengers. The location for the lift has been indicated in the drawing.

Refer to the drawing no. 33633-102 sheet 1 to 7 for the details of the building and the proposed lift.

The lift well is an open rectangular space bounded by steel sections at various landings and steel columns running over the entire traverse of the lift. Landing doors are to be fitted in steel frames that would be provided in the steel structure. While the face on west side will be closed the other two sides of the well will be open and fitted with fencing/wire mesh for safety purpose. Door shall be provided on the North face of the well.

The lift shall be supported and guided by guides fixed on **one (west) side** of the well.

SECTION - II

Design Specifications of proposed lift

Load Capacity : 500 Kg

No of persons	: 6
Rated speed	: 0.75 m/sec
Total traverse	: 9.5 m
No of floors	: ground floor + 3
Ground floor level	: 0.5 m above ground
Distance between floors	: 3 m
Method of speed control drive	: Frequency modulated variable speed drive
Position of machine room	: Above the top landing (9.5 m)
Space above the top landing	: 4 m
Depth of lift pit below ground floor	: 2 m (1 st landing)
Size of lift well	: 1.95x2.0 in m (refer drawings)
Position of counter weight doors	: on one side of the lift perpendicular to doors
Internal size of car	: To accommodate 6 persons
Type of door doors	: Single automatically powered closed doors
Type of control operation	: Selective collective automatic Dual - Attendant and automatic
Electric supply	: 3 Ph 400/430 V

Car arrival or position indicator and direction arrow indicator shall be provided for each landing.

SECTION - III

Technical Specifications and standards

The lift shall meet the code of practice IS 14665 and also adhere to the Lift act, Govt of Tamilnadu.

The following systems/components shall be as per IS:14665. Part 4

- i) Carframe, car, counterweights, suspension, doors, locking devices and contacts
- ii) Lift guiderails, guide shoes and buffers
- iii) Lift safety gears, governors and retiring arm
- iv) Lift machines, brakes and wire ropes
- v) Controller and operating devices

Provisions for top car clearance, bottom car clearance, top counter weight clearance and bottom run by for car and counterweight shall be met.

Guard to prevent accidental contact with the counterweight and rope compensation sheave as per code shall be provided.

The lift drive shall have variable speed control for the motor and automatic ramp for slow start and slow stop. The operation shall be quite. Corrective levelling system to level the lift floor with landing when it stops shall be provided.

Lift shall have 'Open Door' and 'Close Door' buttons. Emergency signal operated from lift car shall activate audio signal (alarm bell operate by battery) fixed to the lift well at an agreed location. Pit stop switch operated from the lowest landing and the pit floor shall be provided. Slack rope switch shall be provided.

An automatic device shall be provided to cut off all power from the motor before the car or counterweight lands on the buffers. overcurrent protection shall be provided for the electrical circuit.

Safety provisions as per IS:14665 shall be made.

Electrical system shall be earthed as prescribed in IS:14665.

Architrave or finish surrounds to doors on the landings is part of the scope of the lift supplier.

Technical Data to be provided by the Supplier

Supplier shall confirm in his bid compliance with the specified Indian standard and its parts and subsections. Any deviation from the standards or specification shall be specifically mentioned in the bid with explanation for deviation.

Supplier of the lift shall provide the following drawings and technical data as listed in Annexure I.

General arrangement and layout drawing for the lift clearly confirming/specifying the dimensions of the lift well, pit and head room over the top landing, mounting locations for lift guides and any other members, cleats connecting to the wall of the well, location and level of the buffers for car and counter weight, location and size of the lifting beam in the ceiling above the lift on top landing and any other details for which the purchaser has to make provision in the lift well or pit or building.

The required load details of the lift and lift well shall be given to IIA by the lift vendor to enable design/modification of the structure accordingly by the structural consultant.

The vendor shall submit the offer comprising of the following

- a) Full Technical details of the Electrical Traction 6 passenger lift shall be offered to IIA along with:
 - Brochures,
 - Schematic Drawings of suitable lift,
 - credentials
- b) Details of 'After-sales' support for the system at VBO, Kavalur
- c) Details of similar installations carried out around Tamilnadu in the last two years.
- d) 'Income Tax payment certificates' and audited balance sheets for the last two years.

LIFT CAR safety features

lift installation shall necessarily be provided with the following safety features. The safety gear shall be provided in accordance with IS 14665, car safety shall be actuated by a speed governor. The car safety shall be operated by speed governor located overhead and driven by governor rope suitably connected to the car and mounted on its own pulleys. The rope shall be maintained in tension by means of weighted or spring loaded tension sheaves located in the pit. The governor rope shall be not less than 6mm in dia and shall be made of steel or phosphor bronze. These shall be in accordance with IS 14665.

Door Locks

Electro-mechanical door lock shall be provided for all the landing doors and they shall be such that the doors cannot open unless the car is at rest at the particular landing. It shall not be possible to move the car unless all the landing doors and the car door are closed and locked. All the locks and contacts shall conform to IS: 14665. The electromechanical latch should be designed that is inaccessible or invisible to the passengers in the car.

Safety features for the Lift car (Emergency alarm/handrail/interphone/lamp/overload)

The car enclosure shall be of stainless steel panel and comprising of the following

False ceiling and flooring as per manufacturer's design and shall be in accordance with IS 14665

CFL lamps of desired illumination in recessed luminaire and mirror optics shall be as per recommendation of manufacturer.

Provision of low intensity (night lamp) illumination to be used during night time when telescope observations are in progress.

Concealed pressured type fan and grills/ exhaust fan with concealed vents.

The car hand rail shall be of stainless steel on back side of the car including fixing support as per relevant code of practice.

Battery operated alarm bell and emergency light shall be provided inside the car which shall operate automatically in case of power failure.

Overload warning features in stainless steel plate shall be installed inside the car. There is overload in the car the sign shall light up flash indicating overload and a buzzer shall be operative and the doors shall remain open until the overload is removed.

Lift shall have interphone with one master unit in controller situated at last landing, one slave unit in the lift car including all relevant material for commissioning of interphone.

Emergency Power Supply for lift car

This shall include suitable secondary battery with trickle/boost charge arrangement and inverter power pack with necessary contactors for supplying the light fixtures in the lift car. The same battery shall also feed the alarm bell and communication equipment.

Brake:

The lift drive machinery shall be provided with an electro-magnetic brake or motor operated brake normally applied by means of springs in compression when the operating device is in off position. The brake shall be designed to be of sufficient size and strength to stop and hold the car at rest with rated load. The brake should be capable of operation automatically by the various safety devices, power failure and by the normal stopping of the car.

Warranty

The standard warranty applicable as per the manufacturer's terms and conditions after commissioning for ensuring trouble free performance against manufacture, wear and tear in parts shall be given.

Free post commissioning maintenance service.

The supplier must give one year free post commissioning service (including replacement warranty).

Delivery Schedule

Commissioning of the Lift shall be within the stipulated period after placing the order. Contract can be terminated unilaterally by the buyer in case the complete items are not received within the contracted delivery period. Extension of contracted delivery period will be at the sole discretion of the Buyer.

Lift operating license

The lift supplied shall be in accordance with the Indian standard specification as mentioned earlier and also as per the lift act of Tamilnadu. Obtaining the lift license after successful installation and inspection by the authority for issuing of lift license is the sole responsibility of the vendor.

Submission

The interested tenderers may contact Mr.P.Madan Mohan Kemkar (Ph.No.25530672 Ext: 381 or Cell 9663375426) to discuss Technical Clarification and Shri.Y.K.raja Iyengar for Commercial Clarification, if any, with prior permission on or before 6th May 2010, before submitting both Technical / Price bids.

Annexure I

Technical Data to be provided by the supplier of the lift

S.No	Description	Dim/type
1.	Lift well	1950 x 2000 mm
2.	Depth of lift pit below 1 st landing	2000 mm
3.	Headroom over the last landing	4000 mm
4.	Internal Dimensions of the car	
5.	Landing Door frame size and any provisions for door rails	
6.	Rated load of car	
7.	Weight of the lift car	
8.	Top car clearance	
9	Bottom car clearance	
10	Top counterweight clearance	
11	Bottom runby for car	
12	Bottom runby for counter weight	
13	Load at the base of the guides/support members with diagram giving locations	
13.1	Car	
13.2	Counterweight	
13.3	Buffers for car	
13.4	Buffer for counter weight	
13.4	Horizontal load from cleats anchoring the supporting members to the building structure	
14	Finishes/architrave	
14.1	Floor, wall and ceiling of cars	
14.2	Doors cor car and landing	

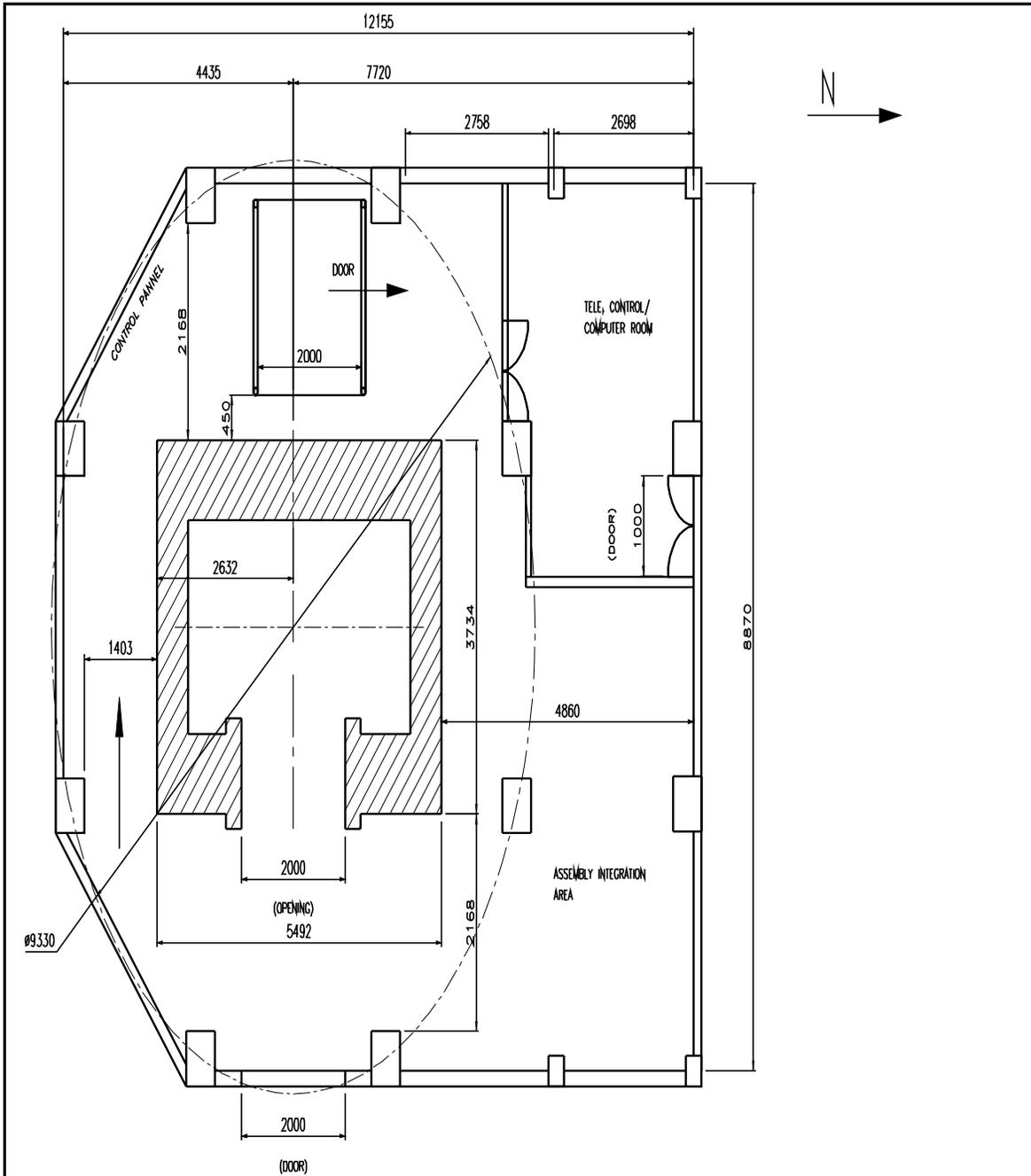
14. 3	Landing panels/architrave	
15	Speed of traverse	
16	Electrical Load in KW	
17	Lifting beam in the ceiling for top landing	
17. 1	Location and size	
17. 2	Maximum load on the bean when in use	

Annexure II

Drawings of the 1.3m Enclosure/building in which the lift is to be installed are inserted in this document below. The drawing nos. are 33633 - 102 - sheet 1/7 to 7/7.

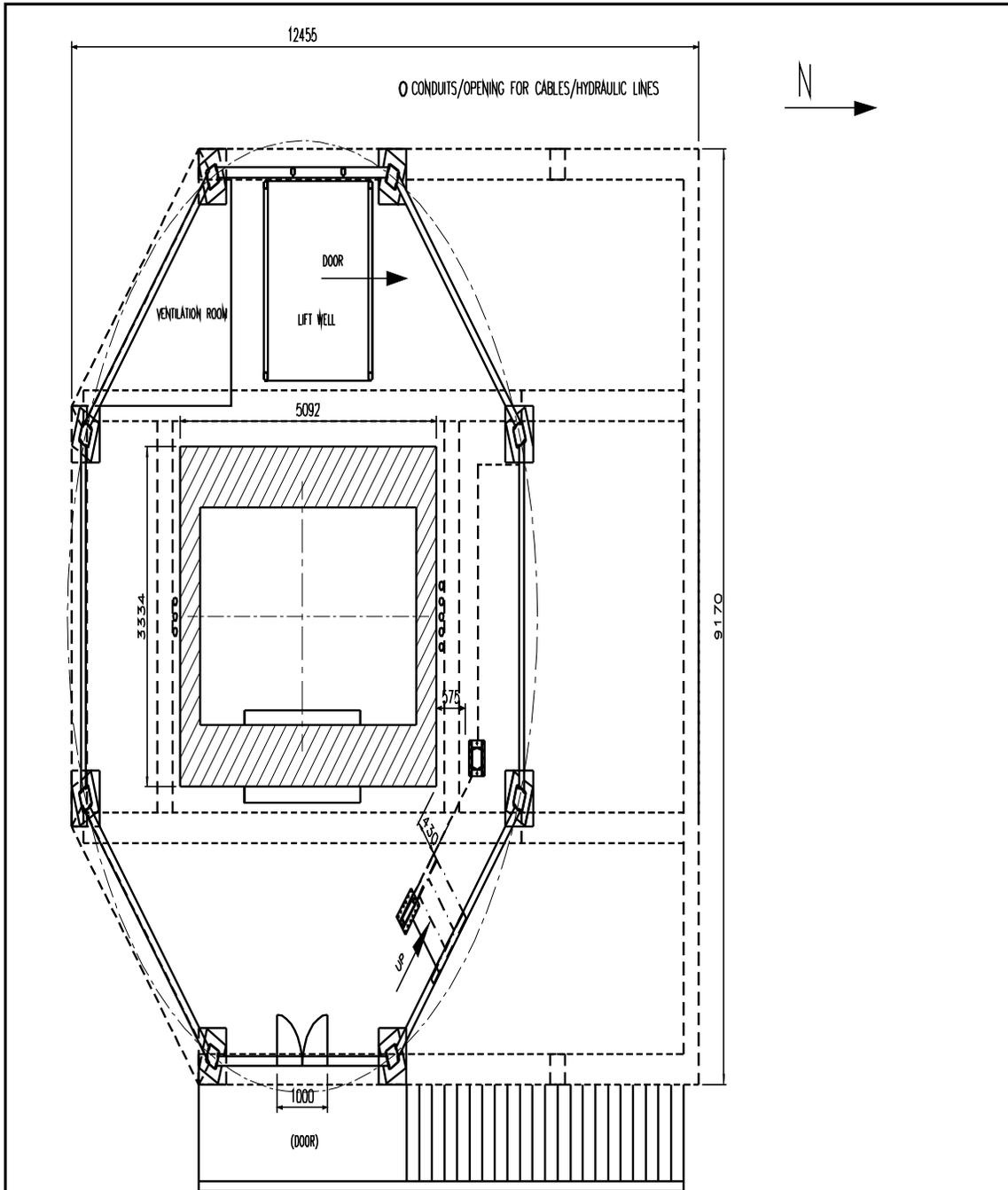
Drawings with better detailing (in .pdf format or AutoCAD format) can be provided to bidders upon request)

Schematic/Layout Drawings



GROUND FLOOR PLAN (0.5 M LEVEL)

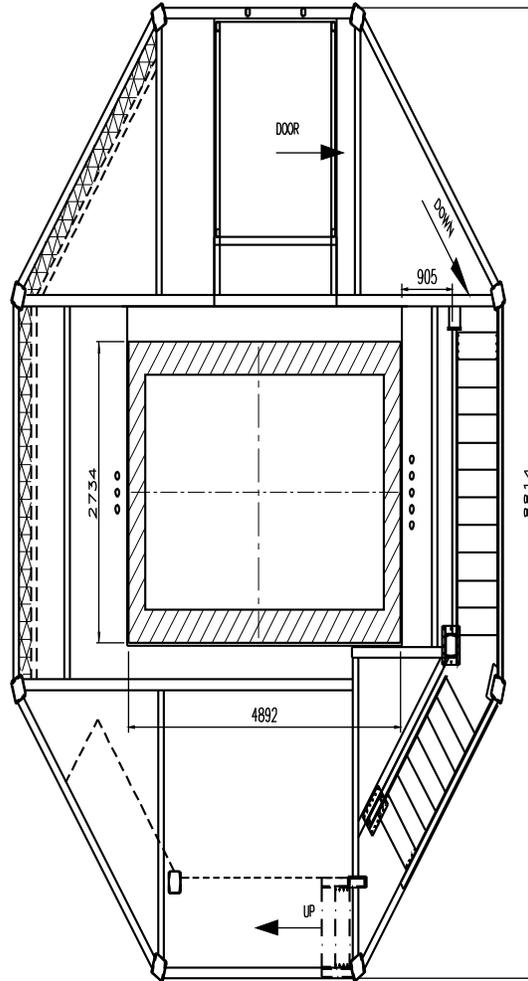
REV	DESCRIPTION	DL	BT	APD	DATE	DRG NO.	ISSUE
R9	DESIGN CHANGED	16.11.08	DESUBCOM	BY		INDIAN INSTITUTE OF ASTROPHYSICS	
R8	DESIGN CHANGED	31.10.08	DESUBCOM	BY	SCALE	1/50	1.3M TELESCOPE - DOME/ENCLOSURE ENCLOSURE-PLAN AT 0.5m
R7	DESIGN CHANGED	26.10.08	DESUBCOM	BY	DRAWN	BRUPAL	
R6	DESIGN CHANGED	21.09.08	DESUBCOM	BY	CHECKED	BY	TEKCONS
R5	DESCRIPTION	DL	BT	APD	DATE	09.07.09	DRG NO. 33633-102 SH 1/7 ISSUE R9



FIRST FLOOR PLAN (3,5 M LEVEL)

R9	DESIGN CHANGED	16.11.08 SUBMITTER	BY	 	INDIAN INSTITUTE OF ASTROPHYSICS		
R8	DESIGN CHANGED	15.10.08 SUBMITTER	BY		SCALE	1:50	1.3M TELESCOPE - DOME/ENCLOSURE
R7	DESIGN CHANGED	26.10.08 SUBMITTER	BY		DRAWN	SHRIPAL	ENCLOSURE - PLAN AT 3,5m
R6	DESIGN CHANGED	21.09.08 SUBMITTER	BY		CHECKED	BY	TEKCONS

○ CONDUITS/OPENING FOR CABLES/HYDRAULIC LINES

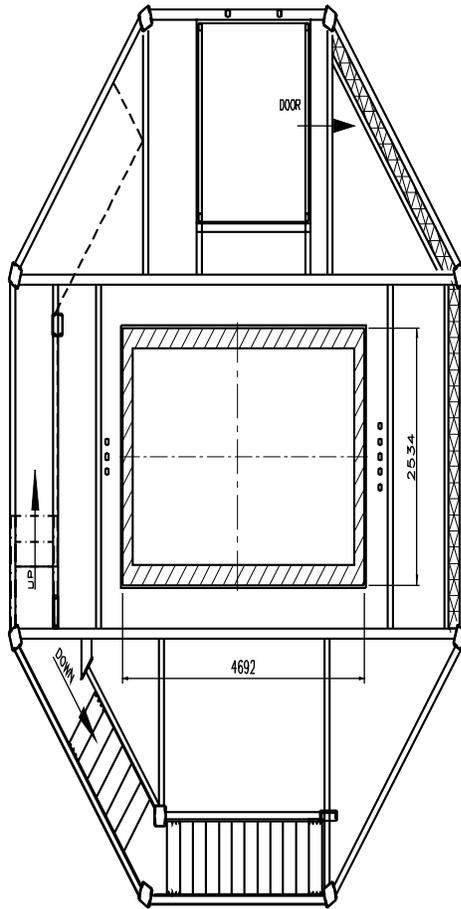


SECOND FLOOR PLAN (6.5 M LEVEL)

RS	DESIGN CHANGED	16.11.08	DESIGNED	BY	BY	INDIAN INSTITUTE OF ASTROPHYSICS
R6	DESIGN CHANGED	31.10.08 <td>DESIGNED</td> <td>BY <td>BY</td> <td>SCALE 1:50</td> </td>	DESIGNED	BY <td>BY</td> <td>SCALE 1:50</td>	BY	SCALE 1:50
R7	DESIGN CHANGED	26.10.08 <td>DESIGNED</td> <td>BY <td>BY</td> <td>1.3M TELESCOPE - DOME/ENCLOSURE</td> </td>	DESIGNED	BY <td>BY</td> <td>1.3M TELESCOPE - DOME/ENCLOSURE</td>	BY	1.3M TELESCOPE - DOME/ENCLOSURE
R6	DESIGN CHANGED	21.09.08 <td>DESIGNED</td> <td>BY <td>BY</td> <td>ENCLOSURE-PLAN AT 6.5m</td> </td>	DESIGNED	BY <td>BY</td> <td>ENCLOSURE-PLAN AT 6.5m</td>	BY	ENCLOSURE-PLAN AT 6.5m
R5	DESCRIPTION	DL	BY	CHD	APD	TEKCONS
DATE	09.07.09	DWG NO.	33633-102	SH 3/7	ISSUE R9	

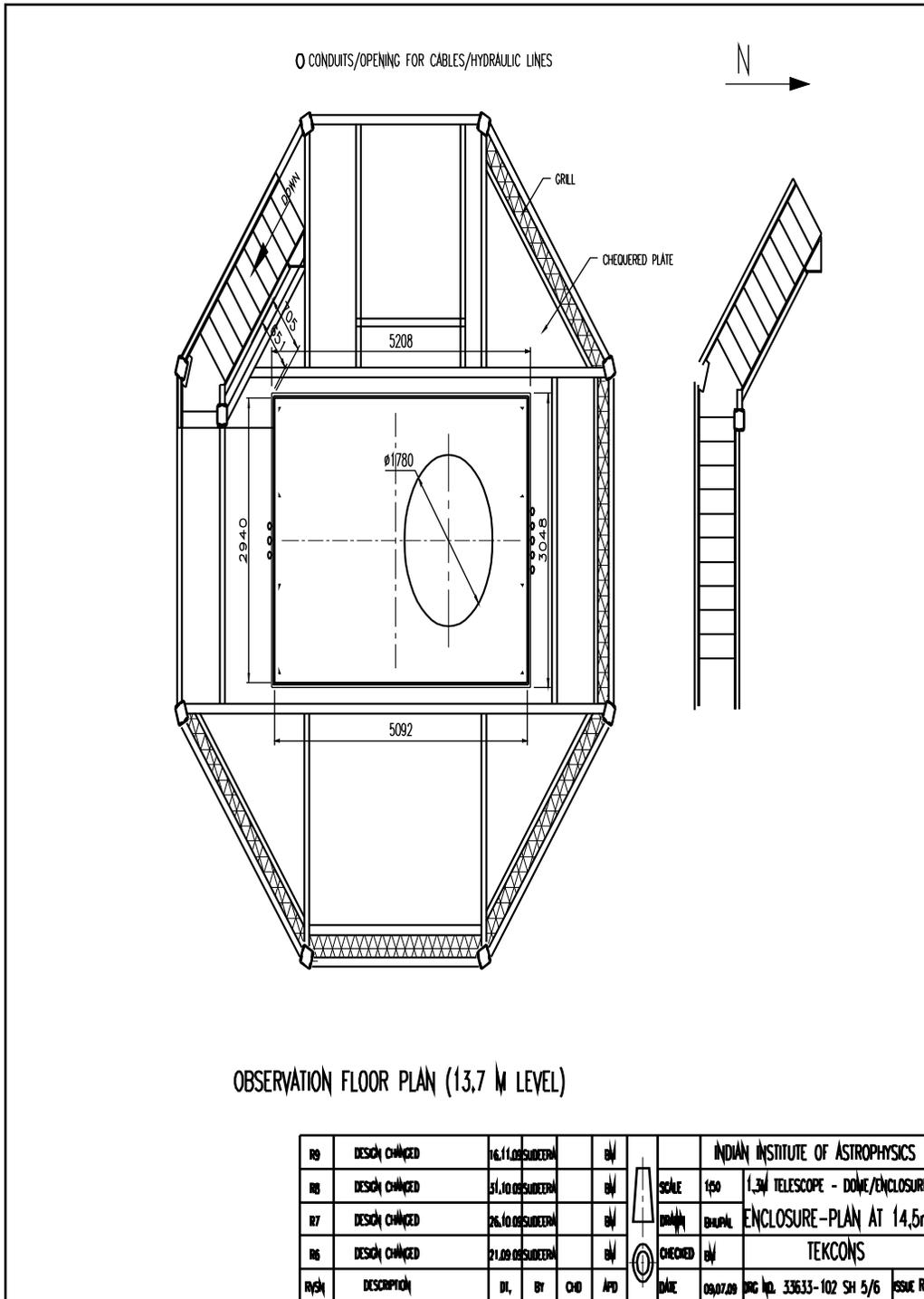


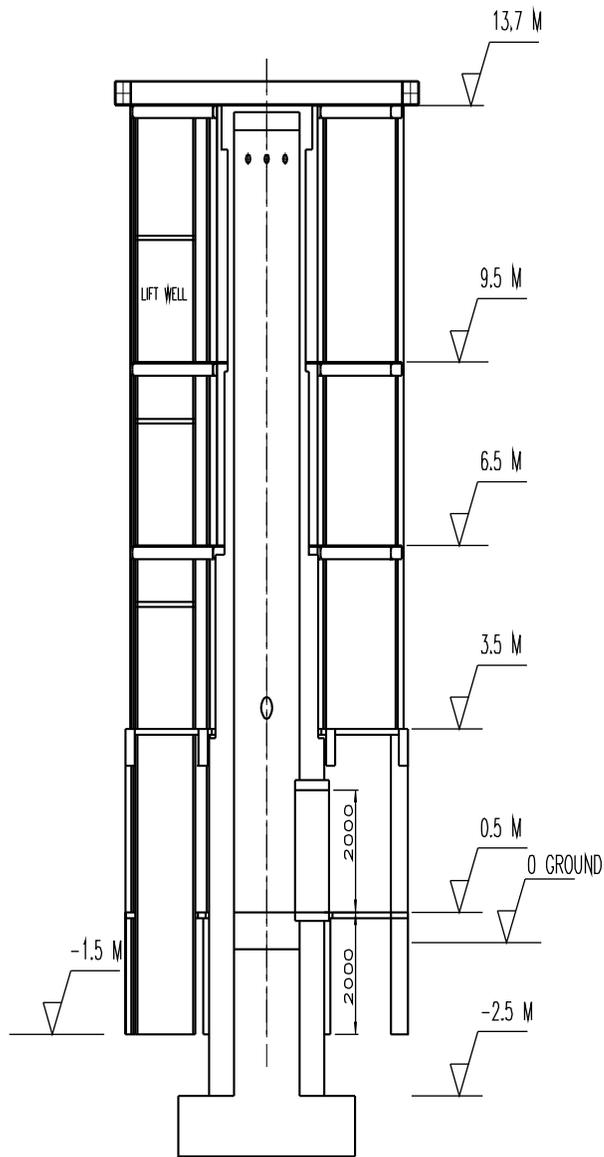
○ CONDUITS/OPENING FOR CABLES/HYDRAULIC LINES



THIRD FLOOR PLAN (9.5 M LEVEL)

REV	DESCRIPTION	DATE	BY	APP	INDIAN INSTITUTE OF ASTROPHYSICS
R9	DESIGN CHANGED	16.11.02	DESIGNER	BY	SCALE 1:50 DRAWN RAJPAUL CHECKED BY DATE 09.07.09 PROJ NO. 33633-102 SH 4/7 ISSUE R9
R8	DESIGN CHANGED	31.10.02	DESIGNER	BY	
R7	DESIGN CHANGED	26.10.02	DESIGNER	BY	
R6	DESIGN CHANGED	21.09.02	DESIGNER	BY	
R5	DESIGN CHANGED	16.11.02	DESIGNER	BY	





REV	DESCRIPTION	DL	BY	CHK	APP	DATE	09.07.09	DRG NO. 33633-102 SH 6/7	ISSUE R9
R9	DESIGN CHANGED	16.10.08	DESIGNER		DP				
R8	DESIGN CHANGED	31.10.08	DESIGNER		DP				
R7	DESIGN CHANGED	26.10.08	DESIGNER		DP				
R6	DESIGN CHANGED	21.09.08	DESIGNER		DP				
						INDIAN INSTITUTE OF ASTROPHYSICS			
						SCALE 1/100	1.5M TELESCOPE - DOME/ENCLOSURE		
						ENCLOSURE - EL			
						TEKCONS			
						CHECKED BY			
						DATE			

