

**ODISHA ELECTRICITY REGULATORY COMMISSION
BIDYUT NIYAMAK BHAVAN, UNIT – VIII
BHUBANESWAR – 751 012
PBX : (0674) 2393097, 2396117
FAX : (0674) 2395781, 2393306

No.Adm/27/(Vol.VI)/2015/1430 Date: 17.11.2015

NOTICE INVITING TENDER

Odisha Electricity Regulatory Commission (OERC) invites sealed tenders for supplying, installing, testing and commissioning Wireless Network Solution at their newly constructed office complex at Chandrasekharapur, Bhubaneswar. Details of the tender are available on OERC's website www.oriarc.org.

Sd/-
SECRETARY I/c

NOTICE INVITING TENDER

Odisha Electricity Regulatory Commission (OERC) invites sealed tenders for supplying, installing, testing and commissioning Wireless Network Solution at their new Office Complex for OERC at Chandrasekharapur, Bhubaneswar. Details of tenders are as under:

a.	Name of the work	Supply, installation, testing and commissioning of Wireless Network Solution in the new building of OERC
b.	Time allowed for completion	20 days from the date of purchase order.
c.	Earnest money deposit (Refundable)	6,000 /-(Rupees Six Thousand only) in the form of Crossed demand Draft / cheque drawn in favour of "OERC BUILDING" and payable at Bhubaneswar
d.	Pre-Bid meeting of the vendors	Dt- 21/11/2015 at 15.30 Hrs. at OERC, Bidyut Niyamak Bhawan, UNIT VIII,BHUBANESWAR
e.	Last date & time of receipt of tender	Dt – 02/12/2015 at 14.00 Hrs.
f.	Address at which the tenders are to be submitted:	Secretary OERC, Bidyut Niyamak Bhawan, Unit-VIII, Bhubaneswar - 751012
g..	Date & time of opening tenders:	Dt- 02/12/2015 at 15.30 Hrs
h.	Place of opening tenders:	OERC, Bidyut Niyamak Bhawan UNIT VIII,BHUBANESWAR
i.	Defect liability period.:-	12(Twelve) months from the date of Commissioning.
j	Validity of offer.	3 (three) months from the opening of the bid.
k	Liquidated Damages	0.5% per week to a maximum of 5% of the order value.

Eligibility of the bidder :- The vendor should be a reputed manufacturer or its authorized dealers / business partner/ system integrator of wireless / wired network equipments and should have presence in Odisha for the last 3 years with service centre at Bhubaneswar. The vendor should have executed one such project (preferably, more than one) in the last 3 years. It should have the income tax clearances and TIN no.

In case the date of opening of tenders is declared as a holiday , the tenders will be opened on the next working day at the same time. Odisha Electricity Regulatory Commission has the right to accept/ reject any / all tenders without assigning any reason thereof.

Sd/-
SECRETARY
OERC, Bhubaneswar

DETAILS OF NETWORK SOLUTION FOR OERC OFFICE BUILDING

Odisha Electricity Regulatory Commission (OERC) is in the process of implementing wired as well as wireless network solution in its new office building at Chandrasekharpur , Bhubaneswar. The new office building has four floors and its detailed drawing is given at Annexure-III. Though the wired and wireless networks are physically separate, the network solution is envisaged as a unified , secured and centrally managed one. The schematic diagram for the network solution is presented at Annexure – II for reference.

The aforesaid diagram along with the various network components are explained in details in the next four paragraphs. More than one ISP's (Internet Service Provider) connectivity of suitable bandwidth along with router over Ethernet shall be provided by OERC.

- 1) **UTM Appliance** : For proper bandwidth management and access control (i.e site blocking/ content filtering/ download quota management etc.), suitable UTM (Unified Threat Management) appliance is to be provided. The UTM appliance shall also support internet load balancing and WAN failover (i.e. when one ISP fails, the other ISPs shall automatically take over the load without the users experiencing any difficulty in internet connectivity).
- 2) **Wired Network** : The UTM appliance shall be connected to a Gigabit Ethernet Managed Switch for providing the wired network. From the managed switch, 3-4 switches in each of the four floors will get connected. Each of the last level 24 port switches shall provide connectivity to computers in 7-8 rooms of every floor using CAT-6 cable.
- 3) **Wireless Network** : For wireless network , the UTM appliance shall be connected to Gigabit PoE Switch which in turn will be linked to a Wireless Controller. The Wireless Controller takes care of the auto channel adjustment and RF power adjustment so that users will experience optimum performance. Each floor in the office building shall have 3-4 wireless access points which shall be connected to the Wireless Controller using CAT-6 cable. Considering the sensitivity of the last mile device, the wireless access points (APs) shall be able to form an independent RF beam so that users will get the best throughput.
- 4) This network architecture shall manage all APs with the wireless controller. It shall authenticate users centrally through wireless controller. The solution will identify the user from his/her MAC Id of the device and accordingly, place in the respective group. Security/Access Policy of that group will be applicable to the user automatically.

The BOQ for this network solution is given at Annexure – I. It may noted that the CAT-6 UTP cables have already been laid and connection point have been provided by OERC in all the rooms across the four floors.

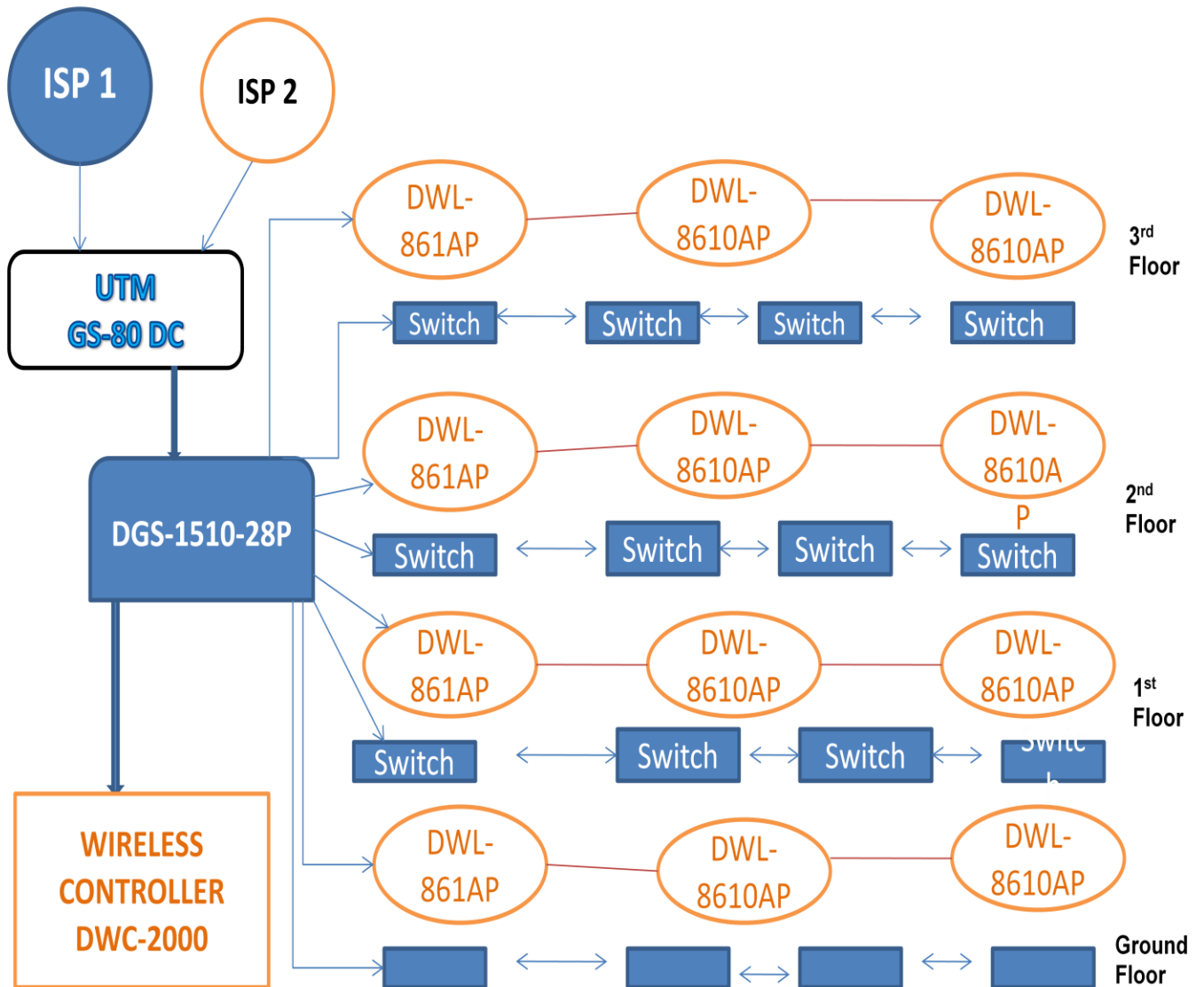
The price quoted per equipment/service shall be inclusive of all taxes and duties. The warranty on each device may be 3 years at the minimum. The delivery and implementation of the aforesaid network solution should be completed within 3 weeks from the date of placement of work order. Full payment against the work order shall be made within 10 days from the date of successful implementation of the network solution.

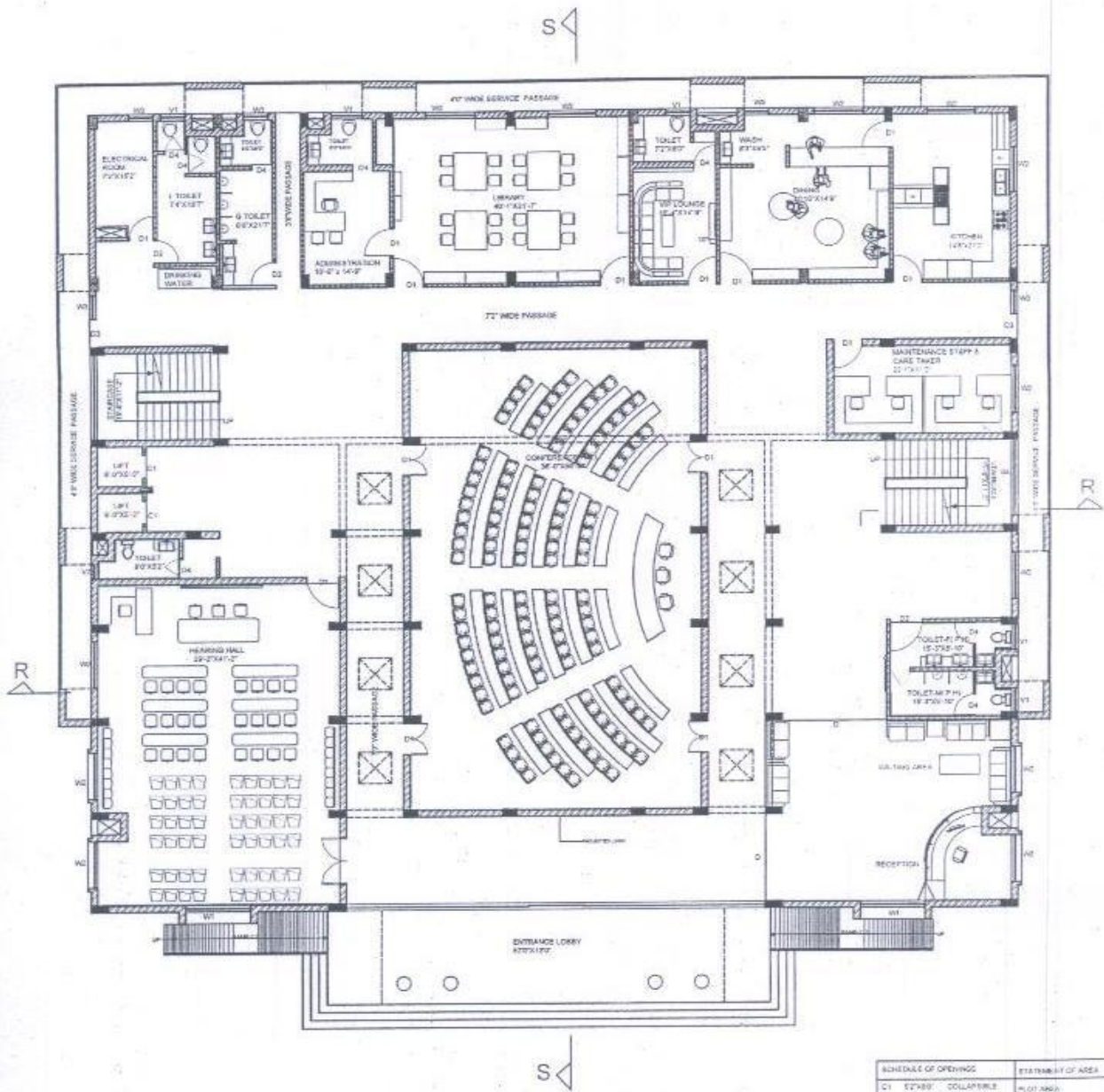
**BOQ for Wireless Network Solution of OERC Office Building at
Chandrasekharapur, Bhubaneswar**

(Annexure-I)

Sl. No.	ITEM DESCRIPTION	SPECIFICATION	QUANTITY	RATE	AMOUNT (RS.)
1.	UTM Security Firewall for Bandwidth Management	D-Link GS-80 dc or Equivalent	1		
2.	24 Ports 10/100/1000Mbps PoE + 2 SFP ports + 2 10G Ports Layer-2 Managed Switch	D-Link DGS-1510-28P Or Equivalent	1		
3.	Enterprise Class Unified Wireless Controller with bundled AP license for required no. of Access Points	D-Link DWC-2000 Or Equivalent	1		
4.	Dual-Band 802.11ac Unified Access Point Managed 300 Mbps supported high speed wireless access point (indoor model) PoE supported	D-Link DWL-8610AP Or Equivalent	14		
5.	CAT6 Information Outlet Single with Back Box(SMB)	NKJ-C6WHI1B21 + NFP-0WHI11 + NBB-011	14		
6	24 Port 10/100/1000 Desktop Switch	D-Link 24 Port (Plug-&-Play Installation) Desktop Switch Or Equivalent	10		
7.	17U (600mmX800mm) Floor Standing Rack with Accessories (2 Nos FAN, 1X6 PDUs, Cable Manger, Screw Packet & Lock)	D-Link NFR-17U-6080-BLSK Or Equivalent	1		
8.	CAT6 UTP Patch Cord Length-1Mtr	NCB-C6UGRYR1-1	40		
9.	One time installation, configuration, integration and training to System Administrator, OERC.		1		

SCHEMATIC DIAGRAM OF NETWORK SOLUTION AT OERC OFFICE BUILDING





UPPER GROUND FLOOR PLAN

SCHEDULE OF OPENINGS	ESTIMATION OF AREA
C1 12'x8'0" COLLAPTABLE	PLOT AREA 14175 SQ'F
D1 4'7'x6'0" DOOR	LOWER GROUND FLOOR 4071 SQ'F
D2 3'0'x6'0" DOOR	UPPER GROUND FLOOR 13789 SQ'F
D3 3'0'x6'0" DOOR	FIRST FLOOR 3025 SQ'F
D4 3'0'x6'0" DOOR	SECOND FLOOR 3025 SQ'F
W1 8'0'x8'0" WINDOW	THIRD FLOOR 3025 SQ'F
W2 8'0'x8'0" WINDOW	
W3 8'0'x8'0" WINDOW	
W4 8'0'x8'0" WINDOW	
W5 8'0'x8'0" WINDOW	
W6 8'0'x8'0" WINDOW	
W7 8'0'x8'0" WINDOW	
W8 8'0'x8'0" WINDOW	
W9 8'0'x8'0" WINDOW	
W10 8'0'x8'0" WINDOW	
W11 8'0'x8'0" WINDOW	
W12 8'0'x8'0" WINDOW	
V1 3'0'x3'0" VENTILATOR	TOTAL 48144 SQ'F
V2 3'0'x3'0" VENTILATOR	

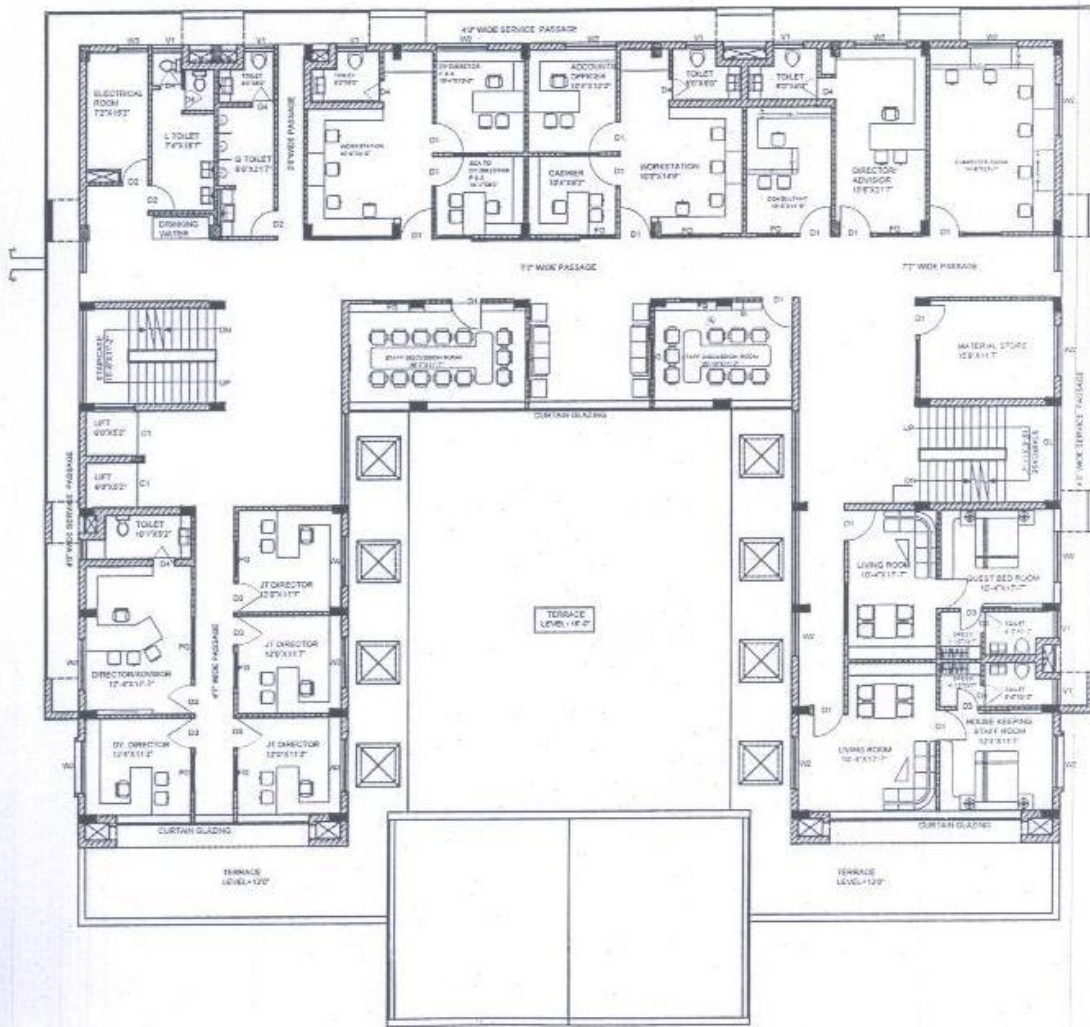
PROPOSED OFFICE BUILDING FOR OERC AT BHUBANESWAR

- NOTE
1. ONLY PARTIAL DIMENSIONS ARE TO BE FOLLOWED
 2. ALL DIMENSIONS ARE IN F.P.S SYSTEM UNLESS OTHERWISE SPECIFIED
 3. TRUSS IS 13' RISE IS 8' AND HEAD ROOM HEIGHT IS 10'
 4. THESE DRAWINGS ARE VALID FOR APPROVAL ONLY
 5. NORMAL HEIGHT OF EACH FLOOR IS 10'
 6. THESE DRAWINGS ARE SOLE PROPERTY OF MR SPACE ARCH
 7. COPY RIGHTS RESERVED
 8. ANY EXHIBIT AND DISCREPANCIES SHOULD BE CLARIFIED FROM THIS OFFICE BEFORE SIGN SUBMITTATION
 9. FOR ALL OTHER DETAIL REFER DRAWING SHEET

ARCHITECT
DR PANKAJ
REGD NO: 22-9611230

CONSULTANT
SPACE ARCH
ARCHITECTS ENGINEERS PLANNERS
208, JAYDEVI CHAKR, BHUBANESWAR

CONTENTS	
UPPER GROUND FLOOR PLAN	
NOTICE LINE	SHEET NO.
	NO. OF SETS
SCALE	DATE
TITLE	



FIRST FLOOR PLAN

SCHEDULE OF OPENINGS		STATEMENT OF AREA		
01	6'0"X6'7"	COLLAPSIBLE	PLAT AREA	4118 SFT
02	2'2"X6'0"	DOOR	LOWER GROUND FLOOR	811 SFT
03	2'2"X6'0"	DOOR	UPPER GROUND FLOOR	1382 SFT
04	2'0"X6'0"	DOOR	FIRST FLOOR	890 SFT
05	6'0"X12'0"	WINDOW	SECOND FLOOR	507 SFT
06	6'0"X12'0"	WINDOW	THIRD FLOOR	507 SFT
07	6'0"X12'0"	WINDOW	TOTAL	8194 SFT
08	2'0"X2'0"	VENTILATOR		
09	2'0"X2'0"	VENTILATOR		

PROPOSED OFFICE BUILDING FOR OERC AT BHUBANESWAR

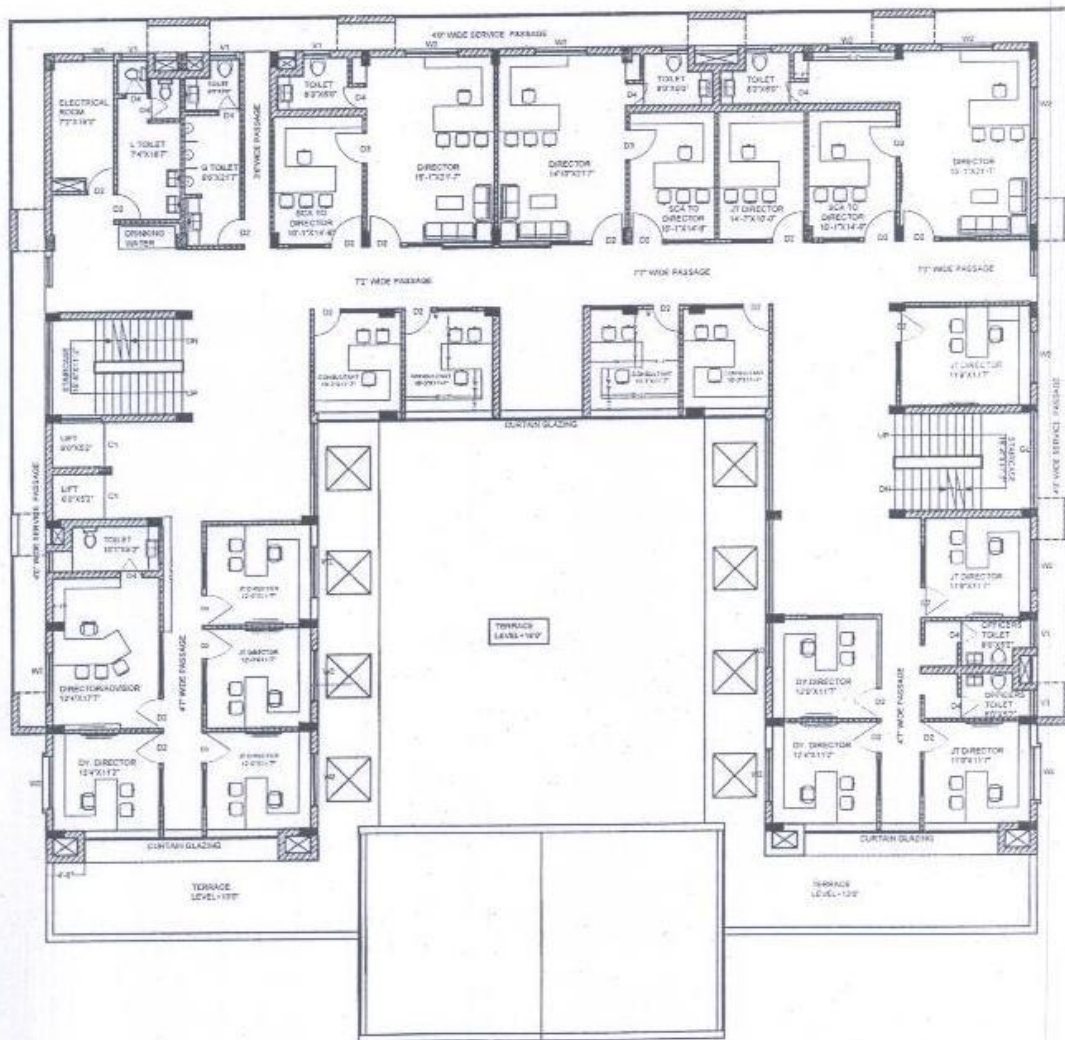
- NOTES
1. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED
 2. ALL DIMENSIONS ARE IN F.P.S. SYSTEM UNLESS OTHERWISE SPECIFIED
 3. TREAD IS 11" RISE IS 3" AND HEAD ROOM HEIGHT IS 10'
 4. THESE DRAWINGS ARE VALID FOR APPROVAL ONLY
 5. NORMAL HEIGHT OF EACH FLOOR IS 10'
 6. THESE DRAWINGS ARE SOLE PROPERTY OF M/S SPACE ARCH
 7. COPY RIGHTS RESERVED
 8. ANY DOUBT AND DISCREPANCY SHOULD BE CLARIFIED FROM THE OFFICE BEFORE IMPLEMENTATION
 9. FOR ALL OTHER DETAIL REFER OTHER SHEET

ARCHITECT
S.K. MOHA
REGISTERED CIVIL ENGINEER

CONSULTANT
SPACE ARCH
ARCHITECTS ENGINEERS PLANNERS
208, JAYAPATI CHALAN, BHUBANESWAR

CONTENTS

FIRST FLOOR PLAN	
NORTH LINE	SHEET NO.
	14/02
SCALE	DATE
1:100	



SECOND FLOOR PLAN

SCHEDULE OF OPENINGS		STATEMENT OF AREA		
C1	2'2'x32'	COLLAPSIBLE	PLAT AREA	4176 SFT
C1	4'0'x30'	DOOR	1200th GROUND FLOOR	120 SFT
C2	3'0'x30'	DOOR	1300th GROUND FLOOR	90 SFT
C3	3'0'x30'	DOOR	FIRST FLOOR	90 SFT
C4	2'6'x7'0"	DOOR	SECOND FLOOR	18 SFT
W1	8'0'x5'	WINDOW	THIRD FLOOR	40 SFT
W2	6'0'x3'	WINDOW		18 SFT
W3	3'0'x3'	WINDOW		9 SFT
V1	2'0'x3'	VENTILATOR	TOTAL	4746 SFT
V2	2'0'x3'	VENTILATOR		

PROPOSED OFFICE BUILDING FOR OERC
AT BHUBANESWAR

- NOTES
1. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED
 2. ALL DIMENSIONS ARE IN F.P.A. SYSTEM UNLESS OTHERWISE SPECIFIED
 3. TREAD IS 12" RISE IS 8" AND HEAD ROOM HEIGHT IS 10'
 4. THESE DIMENSIONS ARE VALID FOR APPROVAL ONLY
 5. ROOMS HEIGHT OF EACH FLOOR IS 10'
 6. THESE DIMENSIONS ARE VALID PROPERTY OF M/S SPACE ARCH
 7. COPY RIGHTS RESERVED
 8. ANY DOUBT AND DISCREPANCIES SHOULD BE CLARIFIED FROM THE OFFICE BEFORE IMPLEMENTATION
 9. FOR ALL CITY-COUNTY TAIL REFER OTHER SHEET

ARCHITECT

CONSULTANT

CONTRACT

G/A PANDA
REGD NO. 2484/1280

SPACE ARCH
ARCHITECTS & ENGINEERS P.L. CHIEF
206, JAYADEV VIHAR, BHUBANESWAR

SECOND FLOOR PLAN

WORK SHEET SHEET NO.

14/12

SCALE DATE

1:100



THIRD FLOOR PLAN

SCHEDULE OF FINISHES		ELEMENTS OF AREA		
01	CEILING	GLASS PANELS	FLOOT AREA	6576 SFT
02	FLOOR	WALL	COMMON ENCLOSED FLOOR	10483 SFT
03	DOOR	COMMON ENCLOSED FLOOR	WALL FLOOR	8527 SFT
04	DOOR	WALL FLOOR	WALL FLOOR	8527 SFT
05	WINDOW	WALL FLOOR	TERRACE FLOOR	8527 SFT
06	WINDOW	TERRACE FLOOR		
07	VENTILATION	TOTAL		46744 SFT
08	VENTILATION			

PROPOSED OFFICE BUILDING FOR OERC
THUBANESWAR

NOTES	REVISION
1. ONLY DIMENSIONS INDICATED ARE TO BE FOLLOWED.	
2. ALL DIMENSIONS ARE IN P.P.S. SYSTEM UNLESS OTHERWISE SPECIFIED.	
3. TREAD IS 12" RISE IS 8" AND HEAD ROOM HEIGHT IS 10'6".	
4. THESE DRAWINGS ARE VALID FOR APPROVAL ONLY.	
5. NORMAL HEIGHT OF EACH FLOOR IS 10'6".	
6. THESE DRAWINGS ARE SOLE PROPERTY OF M/S SPACE ARCH.	
7. COPY RIGHTS RESERVED.	
8. ANY DOUBT AND DISAPPROPRIETY SHOULD BE CLARIFIED WITH THE SPACE ARCH BEFORE ANY CONSTRUCTION.	
9. FOR ALL OTHERS IN THE MEANS OTHERS-REV.	

SPACE ARCH
ARCHITECTS & INTERIORS
22, JAYAWANT NAGAR, CHENNAI - 600 042

THIRD FLOOR PLAN	
DATE	SCALE
BY	1:100