Draft Initial Environmental Examination (IEE) Report: Appendixes

Project Number: 51210-001

October 2017

IND: Kutch Wind Project

Prepared by ARCADIS India Pvt. Ltd., Uttar Pradesh, India

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APPENDIX A

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MoEFCC Notification



भारत सरकार

अपराप्तिक ऊर्जा स्रोत मंत्रालय

Government of India
MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES
व्याद्ध त्याद्ध त्याद्ध व्याद्ध वरिसर, लोवी रोड, नई दिल्ली-110003 :
BLOCK NO. 14, C.G.O. COMPLEX, LODI ROAD, NEW DELHI-110003 :

0.0 %6/195/97-WE(96)

Dear Shri Vedent,

Please refer to the discussions held on 11th November's 1997 at Bangalore regarding environmental clearance for wind power projects. In this connection, the Ministry of Environment and Forest have clarified that the power projects, based on non-conventional energy source, as the main feed, based on non-conventional energy source, as the main feed, based on non-conventional energy source, as the main feed, based on non-conventional energy source, as the main feed, based on non-conventional energy source, as the main feed, based on non-conventional clearance are not required to take environmental clearance, including pollution state so that environmental clearance, including pollution clearance, are not insisted by them.

M.L. Garg)

Shri C.S. Vedant Stanaging Director, Karnataka Renewable Energy Development Mo.!, Coffee Board Building, Dr. B.R. pment Agency Ltd. B.R. Ambedkar Vee

APPENDIX B

CPCB notification for re-classification of industries (sample pages)



केन्द्रीय प्रदूषण नियंत्रण बार्ड CENTRAL PORTUTION CONTROL BOARD शाबिरण का का मंत्रात्व, बारत करवार आवारक का का मंत्रात्व करवार करवार

No.B-29012/ESS(CPA)/2015-16/

March 07, 2016.

To

The Chairman All the State Pollution Control Boards / Pollution Control Committees (List Attached)

SUB: MODIFIED DIRECTIONS UNDER SECTION 18(1)(b) OF THE WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 and THE AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 REGARDING HARMONIZATION OF CLASSIFICATION OF INDUSTRIAL SECTORS UNDER RED/ORANGE/GREEN/WHITE CATEGORIES.

WHEREAS, under section 16 (2)(b) of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 16 (2)(c) of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the Central Pollution Control Board (CPCB), constituted under the Water (Prevention and Control of Pollution) Act, 1974, is to coordinate activities of the State Pollution Central Boards (SPCBs) and Pollution Control Committees (PCCs), and

WHEREAS, under section 16 (2)(c) of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 16 (2)(d) of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the CPCB is to provide technical assistance and guidance to SPCBs and PCCs; and

WHEREAS, it was brought to the notice of CPCB, that different SPCBs / PCCs were following different criteria for classification of industrial sectors under Red/Orange/ Green category and that classification was being used by the SPCBs / PCCs for grant of consents to industries and for Inventorization / surveillance or industries.

WHEREAS, the issue regarding classification of industries was deliberated upon in the 56% Conference of Chairmen & Member Secretaries of CPUB & SPUBs / PCCs held on August 31, 2010 and a working group comprising of representatives from SPUBs & CPUB was constituted to prepare a consolidated list of industrial section falling under Red/Orange/Green category to bring uniformity in classification of industrial sectors across the country.

of Pollution.) Cess (Amendment) Act., 2003, Standards, so far prescribed for various pollutants under Environment (Protection). Act., 1986, and Doon Valley Notification, 1989 issued by MoEFCC. The Pollution Index (PI) of any industrial sector is a number from 0 to 100 and the increasing value of PI denotes the increasing degree of pollution load from the industrial sector.

WHEREAS, based on the series of consultations with SPCBs, different Government / Nongovernment Institutions including industries and MoEFCC, the following criteria on 'Range of Pollution Index' for the purpose of categorization of industrial sectors has been finalized:

Industrial Sectors having Pollution Index score of 60 and above
 Industrial Sectors having Pollution Index score of 41 to 59
 Industrial Sectors having Pollution Index score of 21 to 40
 Green category
 Industrial Sectors having Pollution Index score incl. & upto 20
 White category

WHEREAS, based on the revised criteria, the 'Final Report on Revised Categorization of Industrial Sectors under Red/Orange/Green/White' has been evolved. The 'Categorization' is based on the relative pollution potential of the industrial sectors and grouping of the industrial sectors based on the use of raw materials, manufacturing process adopted and pollutants likely to be generated:

WHEREAS, based on relative Pollution Index, the number of industries in various categories are as under:

- 1. The Red category of industrial sectors: 60
- ii. The Orange category of industrial sectors: 83
- iii. The Green category of industrial sectors: 63 and
- iv. The Newly introduced White category: 36

WHEREAS, there shall be no necessity of obtaining the Consent to Operate" for White category of industries and an intimation to concerned SPCB / PCC shall suffice.

WHEREAS, the purpose of categorization is to ensure that the industry is established in a manner consistent with the environmental objectives and to prompt industrial sectors to adopt cleaner technologies, ultimately resulting in generation of no or minimum pollutants.

WHEREAS the new categorization system shall also facilitate in self-assessment by industries;

Now, therefore, in exercise of the powers delegated to the Chairman, CPCB under-Section 18(1)(b) of the Water (Prevention & Control of Pollution). Act, 1974 and Section 18(1)(b) of the Air (Prevention & Control of Pollution), Act, 1981 the earlier Directions issued in June 2012 in the context of categorisation of industries as Red, Orange & Green are withdrawn with immediate effect and following 'Directions' are hereby issued for compliance by all SPCBs and PCCs:

- That the SPCBs and PCCs shall adopt the Revised Criteria of categorization of industrial sectors as detailed in table nos. F1, F2, F3 and F4 and Revised Lists of Red, Orange, Green and White categories of industrial sectors, presented at table no. G2, G3, G4 and G5 respectively, in the 'Final Report' as attached herewith immediately.
- That all pending applications for consideration of 'Consent to Establish' and 'Consent to Operate' and future such applications shall be processed as per revised criteria.
- That the SPCBs and PCCs will provide the list of industries identified in each category existing in the State which have been considered for grant of consents. SPCBs/PCCs will forward the list of such industries before 31.05.2016 and the same will be uploaded on the websites of respective SPCB/PCC.
- 4. That the 'Revised Lists of Red, Orange, Green and White category of industrial sectors' shall be used by the SPCBs and PCCs for Consent Management and inventorization of industries under Red, Orange Green and White categories. Siting of industries shall be only in conforming areas. SPCBs / PCCs shall evolve sector specific plans for control of pollution and industrial surveillance for verifying compliance.
- That the SPCBs and PCCs shall revise / prepare the inventory of Red, Orange, Green and White categories of industries operating in their jurisdiction based on the revised criteria specified in the Final Report and submit the same to CPCB within 90 days i.e., before 30.05.2016 in hard copy as well as soft copy.
- That the listed category of industries or those identified later-on under different categories shall not be linked to sanction of loan / finance or bank proceedings.
- 7. That any further addition of any new or left-over industrial sector and their categorization which is not listed in the revised list of Red, Orange, Green and White industrial sectors, shall be done at the level of concerned SPCB /PCC following revised criteria & guidelines as detailed in the attached document and no concurrence of CPCB shall normally be required. It is further clarified that while categorizing the industries, fractional numbers shall be rounded off to nearest integer.

APPENDIX C

Notification of CPCB for exemption of wind power projects from obtaining CTE and CTO



केन्द्रीय प्रदूषण नियंत्रण बोर्ड

पर्यावरण एवं चन मंत्रालय (भारत सरकार)

Central Pollution Control Board

Ministry of Environment & Forests (Government of India) Phone: 22307078/22303655

No. B- 29012/ESS/CPA/2016-17/

January 18, 2017

To:

The Member Secretary, All the State Pollution Control Boards / Pollution Control Committees (List Attached)

Sub: Clarification in the matter of Revised Categorization of the industrial Sector namely "Solar power generation through solar photovoltaic cell, wind power and mini hydel power (less than 25 MW)".

Modified Directions are issued by CPCB on 07.03.2016 u/s 18(1)(b) of the Water (P&C of Pollution) Act, 1974 and Air (P&C of Pollution), Act, 1981 on "Revised Classification of Industrial Sectors under Red, Orange, Green and White Categories". In this context, references are received by Central Pollution Control Board for elaboration of the activities covered under the industrial sector namely ""Solar Power generation through solar photovoltaic cell, Wind Power and Mini Hydel Power (less than 25 MW)" which is placed at Sl. No 35 in White category of industrial sectors. The matter has been examined and it is hereby clarified that this category of industrial sector includes the following units:

- 1. Solar Power generation through photo-voltaic cells, Plants of all capacities.
- 2. Wind Power generation Plants of all capacities.
- 3. Mini Hydel Power Plants having capacity less than 25 MW.

Accordingly, for all future references, the entry at Sl. No. 35 in White category of industrial sectors namely "Solar Power generation through solar photovoltaic cell, Wind Power and Mini Hydel Power (less than 25 MW)" shall be read as "Solar Power generation through solar photovoltaic cell Plants of all capacities, Wind Power Plants of all capacities and Mini Hydel Power Plants of capacity less than 25 MW.

This is for reference of all concerned, please.

Yours faithfully

[A.B. Akolkar]

Member Secretary

Copy for kind information to:

The Joint Secretary (AKM), CP Division, MoEFCC. New Delhi

✓ Incharge – IT, CPCB, Delhi, for uploading on website of CPCB.

1	The Member Secretary Andhra Pradesh Pollution Control Board A-3, Prayauaraana Bhavan, Industrial Estate Sanath Nagar, Moosapet, Telangana 500018 (Hyderabad)	2	The Member Secretary Assam Pollution Control Board Bamunimaidan, Guwahati – 781 021 Assam
3	The Member Secretary Arunachal Pradesh Pollution Control Board, Department of Environment & Forests Office Complex, P-Sector, Itanagar 791 111 Arunachal Pradesh	4	The Member Secretary Bihar State Pollution Control Board 2 rd Floor, Beltron Bhavan, Jawaharlal Nehru Marg, Shastri Nagar,Patna 800 023 Bihar
5	The Member Secretary Chhatisgarh Environment Conservation Board, H.No. 1, Tilak Nagar, Shiv Mandir Chowk, Main Road, Avanti Vihar, Raipur – 421 001	6	The Member Secretary Goa State Pollution Control Board Dempo Towers, 1st Floor EDC Plaza, Patto Panaji – 403001, Goa
7	The Member Secretary Gujarat State Pollution Control Board Paryavaran Bhavan, Sector-10-A, Gandhi Nagar-382010 Gujarat	8	The Member Secretary Haryana State Pollution Control Board Plot No. C – 11, Sector 6, Panchkula, Haryana
9	The Member Secretary Himachal Pradesh State Environmental Protection and Pollution Control Board "Paryavaran Bhavan" Phase – III, Below BCS New Shimla – 171009, Himachal Pradesh	10	The Member Secretary Jammu and Kashmir State Pollution Control Board Sheikal-ul-Alam Campus, Raj Bagh, Behind Govt, Silk Factory, Rajbagh, Srinaar 190 008
11	The Member Secretary Jharkhand State Pollution Control Board T.A. Division Building (Ground Floor) HEC Dhurwa, Ranchi – 834004, Jharkhand	12	The Member Secretary Karnataka State Pollution Control Board # 49, Parisara Bhavan 4th and 5th Floor, Church Street Bangalore – 560001, Karnataka
13	The Member Secretary Kerala State Pollution Control Board Plamoodu Junction Pattom Palace P.O. Thiruvananthapuram – 695004, Kerala	14	The Member Secretary Maharashtra State Pollution Control Board Kalpataru Point, 3rd & 4th Floor Sion Matunga Scheme, Road No. 8 Opp. Cine Planet Cinema Near Sion Circle, Sion (East) Mumbai – 400022, Maharashtra
15	The Member Secretary Manipur State Pollution Control Board Lamphalpat Imphal – 795004, Manipur	16	The Member Secretary Madhya Pradesh State Pollution Control Board Paryavaran Parisar E – 5, Arera Colony Bhopal – 462 016, Madhya Pradesh
17	The Member Secretary Mizoram State Pollution Control Board M.G. Road, Khatla Alzwal-796 001, Mizoram	18	The Member Secretary Meghalaya State Pollution Control Board "ARDEN" Lumpyngngad Shillong – 793014, Meghalaya

19	The Member Secretary Nagaland State Pollution Control Board Signal Point, Dimapur-797112, Nagaland	20	The Member Secretary Orissa State Pollution Control Board, Paribesh Bhawan A / 118, Nitakantha Nagar Unit – VIII, Bhubaneshwar – 751012, Orissa
21	Punjab State Pollution Control Board Vatavaran Bhavan Nabha Road Patiala – 147 001 Punjab	22	The Member Secretary Rajasthan State Pollution Control Board 4, Paryavaran Marg, Institutional Area Jhalana Doongari, Jaipur – 302004, Rajasthan
23	The Member Secretary Sikkim State Pollution Control Board Department of Forest, Environment & Wildlife Management Govt. of Sikkim Deorali, Gangtok, Sikkim	24	The Member Secretary Tamil Nadu State Poliution Control Board No. 100, Anna Salai Guindy, Chennai – 600032, Tamil Nadu
25	The Member Secretary Telangana State Pollution Control Board A-3, Prayauaraana Bhavan, Industrial Estate Sanath Nagar, Moosapet, Telangana 500018 (Hyderabad)	26	The Member Secretary Tripura State Pollution Control Board Vigyan Bhavan Pandit Nehru Complex Gorkhabasti, P.O. Kunjaban, Agartala West Tripura – 799006
27	The Member Secretary Uttarakhand Environment Protection and Pollution Control Board Paryavaran Bhavan E-115, Nehru Colony Dehradun-248 001, Uttaranchal	28	The Member Secretary Uttar Pradesh State Pollution Control Board PICKUP Bhavan 3rd Floor, B — Block Vibhuti Khand, Gomti Nagar Lucknow — 226 010, Uttar Pradesh
29	The Member Secretary West Bengal State Pollution Control Board Department of Environment, Government of West Bengal Paribesh Bhavan Beilding No. – 10A Block – LA, Sector – III, Salt Lake City Kolkata – 700 098, West Bengal	30	The Member Secretary Daman, Diu & Dadra & Nagar Haveli Poliution Control Committee Office of the Dy. Conservator of Forests Moti Daman, Daman - 396220
31	The Member Secretary Pondicherry Pollution Control Committee Department of Science Technology and Environment 3rd Floor, Housing Board Building Anna Nagar, Pondicherry – 605 005	32	The Member Secretary Chandigarh Pollution Control Committee Additional Town Hall Building, 2nd Floor Sector 17 – C Chandigarh – 160 017
33	The Member Secretary Delhi Pollution Control Committee 4th Floor, ISBT Building, Kashmere Gate Delhi-110 006	34	The Executive Engineer Public Works Department U.T. of Lakshadweep Kavaratti – 682555 Lakshadweep

APPENDIX D

NOC from DLIR

ડીસ્ટ્રીકટ ઇન્સ્પેકટર લેન્ડ રેકડઝ, કચ્છ-ભુજ

જીલ્લા માજણી સેવા સદન,મુન્દ્રા રોડ,ભુજ ૩૭૦૦૧ ફક્સ /ફાન ન (૦૨૮૩૨) ૨૩૦૩૧૫.

ત ડી.અસ આ./૩૯/એમ.આર તે ૧/૨૧૬/૧૬-૧૭/કાનપર

411403/2013

પ્રતી શ્રી કલેક્ટર સાહેબ મહેસુલ શાખા કર્યક-બજ

વિષય: મોજે.કાનપર તા.ખુજ

ટ્રેપસાનો ૫૭ ની કુલ જમીન હૈ.૧-૦૦-૦૦ આરે વિન્ડફાર્મ પ્રોજેક્ટ હતું માટે મળવા બાબત.

ઓસ્ટ્રો કચ્છ વિન્ડ પ્રા.લી.

સંદર્ભ:આપ સાહેલ ના પત્ર નં.જમન/૨/વશી/૨૪૨૪/૨૦૧૭ તા.૨૪/૫/૨૦૧૭

साहर

સવિનય ઉપરોક્ત વિષય પરત્વે જણાવવાનુંક સંદર્ભવાળા પત્રથી મોર્જે.કાનપર તા.ભુજ ના સ.નં.૫૭ ની કુલ જમીન હે.૧-૦૦-૦૦ ઓર વિન્ડકાર્મ પ્રોજેક્ટ હેતુ માટે મળવા બાબત માંત્રણીવાળી જમીનના સામેલ નકશામાં દર્શાવેલ વિસ્તારની અશ્જદાર એકમના પ્રતિનિધિની કૃબફ માં માપણી કરી રેકર્ડ સાથે મેળવનું કરના મોર્જે.કાનપર તા.ભુજ નાં સરકારી સ.ન.૫૭ પૈકી હે.૦૧-૦૦-૦૦ ઓર જમીન થાય છે.જે વિશેષ સમજુતી સાથે તૈયાર કરવામાં આવેલ માપણીશીટ ની નકલ આ સાથે સામેલ સખેલ છે. જે એંગ્રે આપ સાહેબ ને જણ થઇ યોગ્ય થવા વિનેતિ છે બીડાનુ-માપણીશીટ ની નકલ

> જિલ્લો-નિરીક્ષક જમીન દકતર, ભજ-કરણ

તકલ ત્યાનત ઓસ્ટ્રો કરછ વિન્ડ લા.લી. યુનિટ ને.જી-૦,ગ્રાઉન્ડ ફ્લોર.મીરા કોર્પોરેટ સ્યુટ-૧ તથા દ તે. અસ્ટર.મથરા રોડ ન્યુ દિલ્હી-૧૧૦૦૬૫ તરફ જાણ સારે ંા ્_{ડાડ}૦૦

APPENDIX E

Permission from Forest Department

महेशल शामा My-143

> વિષયઃ– મોજે :– રેહા મોટા તાલુકો :– ભુજ સ.નં.૨૭૨ ની જમીન કુલ હે.૧.૫૦.૦૦ આરે વિન્ક્સમેં પ્રોજેક્ટ હેતુ માટે મળવા બાબત ઓસ્ટ્રો કચ્છ વિન્ક પ્રા.લી.

સંદર્ભઃ- (૧)આપના પત્રન જમન/૨/વર્શી/૭૬૫૬/૨૦૧૬ તા ૧૩/૧૨/૨૦૧૬ . (૨) આત્રેના પત્ર ન.બાજમનાટ-૯/૩૨૮૨..તા.૨૪/૦૪/૨૦૧૭. (૩) અરજદારની તા.૧/૦૭/૨૦૧૭ ની અરજી.

સવિનય ઉપરોક્ત વિષયે આપશ્રીના સંદર્ભવાળા પત્રથી બિકાબ્રમાં સામેલ થઈ આવેલ નકશામાં દર્શાવેલ વિસ્તાર મુજબ મોજે :- રેહા મોટા તાલુકો :- ભુજ ટ્રા.સ.નં.૨૭૨ ની જમીન કુલ હે.૦૧.૫૦.૦૦ આરે વિન્દકાર્ય પ્રોજેક્ટ હેતુ માટે મળવા માંગણી કરવામાં આવેલ છે.જે અન્વયે અરજી સાથે રજુ થયેલ આ સાથે સામેલ નકશા મુજબ રેહા મોટા ના પવનચક્કી લોકેશન નં. રેહા મોટા લોકેશન નં.– BHO 160 માટે અત્રેના વિભાગનો નીચે ની શરતો ને આધીન કાળવાા અભિપ્રાય આપવામાં આવે છે. જે જાણ થવા વિનંતી છે.

શરતો:-

(૧) ઉપરોક્ત જમીન મંજુરી મળયેથી નજીકના જંગલ વિસ્તાર/અભ્યારણ વિસ્તારને કોઈપણ જાતનું નુકશાન પહોંચાકવામાં આવશે નહિ. તેવી બાંહેઘરી મેળવવી.

માંગણી વાળા વિસ્તાર માટે સ્થાનીકે હયાત જંગલ વિસ્તારથી ૫૦મીટર દુર રહીને

કામગીરી કરવાની રહેશે.

(૩) માંગણીવાળા વિસ્તારથી મુખ્ય રસ્તા પર આવવા જવા માટે અપ્રોચ રોક બનાવવાનો થતો હોય, અને મુખ્ય રસ્તો પ્રોટેક્ટેંક કોરેસ્ટ તરીકે જાહેર થયેલ હોય તો ઉપયોગમાં લેવાનાર થતા અપ્રોંચ રસ્તા માટે વન સંરક્ષણ ધારો–૧૯૮૦ ની જોગવાઈ અનુસાર ભારત સરકારશ્રીની પૂર્વ મંજુરી મેળવવાની રહેશે અને ત્યાર બાદ રસ્તાનો ઉપયોગ

અન્ય લાગુ પડતા કાયદાઓ/નિયમો અંગે મંજુરી લેવાની રહેશે. (8)

- નામ.સર્વોચ્ચ અદાલત તથા અન્ય ના.અદાલતનો લાગુ પડતા તમામ હુકમો અન્વયે જરૂરી અમલ કરવાનો રહેશે.
- (ક) ભારતીય વિદ્યુત અધિનિયમ ૨૦૦૩ અને જેટકો ના સ્પેશીફીકેશન મુજબ વાયર અને વીજળીના થોભલાઓ ઉપર તથા લાઈનો પરબર્ક ગાર્કસ તથા રિક્લેક્ટર્સ લગાઠવાના રહેશે.

(આર.એ.દરેકીયા)

નાયબ વન સંરક્ષક કચ્છ પુર્વ વન વિભાગ,ભુજ.

APPENDIX F

NOC from Mining Department

ભુસ્તરવિજ્ઞાન અને ખનિજ કમિશ્નરની કચેરી

લ્લોક ને.૧,૨/૭ મો માળ, ઉદ્યોગભવન,સેક્ટર -૧૧, ગાંધીનગર ગુજરાત

सदा न्म्रीक्ष्रत्ताव्यक्षात्र १३ व्याप्त १४०० व्याप्त १४०० व्याप्त । १४०० व्याप्त । १४०० व्याप्त ।

લેશ-૩લ્ટ મિલ્કશાબા કરોક્ટરની

— સિલ્લ- વિંડ કાર્ય પ્રોજેક્ટ માટે જમીન ભાડાપટે મળવા માટે ના-વાંધા પ્રમાણપત્ર ઘરજદાર કંપની ઘોસ્ટો કચ્છ ચિન્ન પા તી. યુનિટ નં જી-૦, ગ્રાઉડ ક્લોર , મીરા કોર્પોરેટર સ્યુટ ૧ અને ૨, ઇન્ડસ્ટીયલ એસ્ટેટ , મથુરા શેડ. ન્યુ દિલ્લી ૧૧૦૦૬૫.

સંદર્ભ- ૧.આપની કરોરીની તારીબ ૦૯-૦૫-૨૦૧૭ની દરખાસ્તો.

ર, સરકારશ્રીના મહેનુલ વિભાગના પરીપત્ર ન, આરએએમ/૧૦૨૨૦૪/૧૮૦/લ

CL 25/02/2008 HEL 13/03/2008

અરજદાર કંપની ઓસ્ટ્રો કચ્છ વિન્ક પા. લી. યુનિટ ને જી-0. ગાઉડ ક્લોર . મીશ કોર્પોરેટર સ્પૃટ ૧ અને ૨. ઇન્ક્રસ્ટીયલ એસ્ટેટ . મકુર. રોડ. ન્યુ દિલ્હી ૧૧૦૦૬૫એ કચ્છ જીલ્લાના નીચે પુજબના વિસ્તારમાં વિક ક્લમે પ્રોજેક્ટ માટે જમીન ભાડાયટે મળવા માટે માંગફી કરેલ છે. જે અન્વચે અત્રેની કચેરીનું "ના લોધા પ્રમાણપત્ર" મળવા આપની કચેરીના મદલે ૧ઢી અત્રે દરખાસ્ત્રો મોકલેલ છે.

\$ H	એન. બો.સી. એ.સી.	ગોજ	લેશ પા	મનં	જમીનનો પકાર	विस्तर	ग्रिश्ट नंबर
١	353	બંધારા નાના	61.8	1/635	સરકારી	14 00 00	8HO- 105 TO 113
1	357	લ્ટલ	98	141/1,	સરકારી	15.40.00	8HO 54 TO 8HO 64
3	356	1538	98	136/1	સરકારી	3.00.00	BHO- 100 10 8ho- 101
×	330	વડવા	68	141/1	अरअरी	¥,40.00	BHO- 161 TO BHO- 16
4	331	સકરાઇ દીમ્બો	GA	63/1	સરકારી	\$1.00.00	840 67,68,70,71,72,73, 840 76 TO 82
s	335	ग्रेलरङ	G.A.	340/1	सरभरी	07.40.00	5HO 97 TO 6HO 99
3	333	४६ स	da	146/1	કારકારી	12.00.00	BHO- 28 TO bho- 35
4	331	*551	44	146/1	सरअरी	17.00.00	BHO- 152 10 bho- 159
ŧ	334	લવડી	ola.	155/19	Biesis	1.40.00	ано- 83
10	335	1259	98	su an	REMI	1.00.00	8HO-65 TO bho-66

***	.333	સેડાતા	62	144/1	सरझरी	80.40.00	8HO-001 TO bho-014 & 8HO-024 TO bho- 027
15	334	ગકેર	98	27.75	સરકારી	3.00.00	BHO- 114 TO bho-115
43	336	sezp	da	८४, १५१/13, १५१/36, १५१/8८	સરકારી	13,40,00	BHO-123 TO bho-126
43	340	ગહેર	da	100, 132/1. 160, 224, 234/5	સરકારી	16.40.00	8HO- 84 TO bho-96

ઉક્ત દરખાસ્તો ધ્યાને લઇ સંદર્ભ-રથી મળેલ સતાની રૂપ્ટે મે ઔસ્ટ્રી કચ્છ વિન્ઠ પૂા. લી. યુનિટ નં. જી-૦. ગાઉડ ક્લોટ . મીરા કોર્પોરેટર સ્થૃદ ૧ અને ૨. ઇન્ક્રસ્ટ્રીયલ એસ્ટેટ , ઘથુરા રોડ, ન્યુ દિલ્હી ૧૧૦૦૬૫ ને સંદર્ભ-૧ થી મોકલેલ દરખાસ્તો મુજબન્ય ઉક્ત વિસ્તારમાં વિંડ ફાર્મ પ્રોજેક્ટ માટે જમીન ભાડાપટે મળવા માટે અત્રેશી "ના-વાંધા પ્રમાણપત્ર " આપવામાં આવે છે.

(लीध अभिवरबीधे मंत्रुर डरेल छे.)

थापे नियोभे (विशस)

ભુસ્તરવિશાન અને ખનિજ કમિશ્વરની કચેરી

ગાંધીનગર

નકલ સ્વાના-

્રમાં ખોરફો કચ્છ વિન્ક પા. લી.. યુનિટ નં. ૧૦-૦. ગાઉડ ક્લોર . મીરા કોર્પોરેટર સ્યુટ ૧ અને ૨, ઇન્કસ્ટ્રીઘલ પ્રેસ્ટેટ . મધુરા રોડ. ન્યુ દિલ્હી ૧૧૦૦૬૫

Site Surrounding of 150 WTG locations

WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 25	42Q 565727.00 2560776.00	42Q 565587.98 2560922.60	Meghpar village	Govt. land	Open scrub	Structure (One receptor)	200m NW	Undulating land	Stone Quarry: 240m west Forest Area: Bhuj Reserve Forest at a distance of 2.73 km N from WTG location	Structure identified : temporary Labour shed	
KUT 73	42Q 551097;	551270; 2566516	Nagiyari village	Govt. land	Open scrub	Structure	200 m SE	Sightly undulating	Ag. Field: 90m north Connecting road: 150m east Forest Area: Sadau Reserve Forest not within 3km from WTG location	Structure identified: House	
1.0170	2566611	42Q 551302; 2566422	Nagiyari village	Govt. land	Open scrub	Structure	280m NW	Sightly undulating	Ag. Field: 90m north Connecting road: 150m east Forest Area: Sadau Reserve Forest not within 3km from WTG location	Structure 2 identified: Identified as a house under construction, adjoining a group of houses.	
BHO160	42Q 573015.00 m E 2559433.00 m N	42Q 573224.42 2559349.26	Reha mota village	Govt. land	Open scrub	Structure (One receptor)	220m SE	Flat land	Agricultural field: 100m Connecting road 14mSW Forest Area: Bhuj Reserve Forest at a distance of 2.81 km N from WTG location	Structure identified as a single house	

environmenta	al & social impact asses	sment	_					_			
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Laı	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph
KUT 35	42Q 538002; 2562484	42Q 537765; 2562563	Kurbai village	Govt. land	Open scrub	Structure (One receptor)	250m W	Undulating terrain	No forest land involved Water body: 335m north west Agricultural field: 250m west	Structure identified as a single house	
BHO 113	42Q 577898.00 m E	577907; 2550515	Bandhara Nana	Govt. land	Open scrub	Structure (One receptor)	260 m S	Undulating land	Open scrub land in the surrounding Forest Area: Moto Tholo Reserve Forest at a distance of 0.97 km E from WTG location	Structure identified as a single house	
	2550771.00 m N	0577525; 2550549	Bandhara Nana	Govt. land	Open scrub	Structures	420 m SW	Undulating land	Open scrub land in the surrounding Forest Area: Moto Tholo Reserve Forest at a distance of 0.97 km E from WTG location	Structure identified as a single house	
BHO 119	42Q 571355 2553970	42Q 571438.42 m E 2553719.30 m N	Sanosara village	Govt. land	Open scrub	Structure (One receptor)	280 m SE	Hilly undulating terrain	Agricultural field:300m South and NW Open scrubland in the surrounding Forest Area: Bandra Mota Reserve Forest at a distance of 0.67 km SE from WTG location	: Structure identified as a single house	
		571639.07 m E; 2553587.19 m N	Sanosara village	Govt. land	Open scrub	Structure	480 m SE	Hilly undulating terrain	Agricultural field:300m South and NW Open scrubland in the surrounding Forest Area: Bandra Mota Reserve Forest at a distance of 0.67	Receptor 2 for BHO 119: Structure not visited as it was inaccessible	

environmental & social impact assessment												
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph	
									km SE from WTG location			
OLD19	42Q 555123.00 m E 2555556.00 m N	42Q 555264.02 2555794.36	Meghpar village	Govt. land	Open scrub	Structure (One receptor)	280 m NE	Flat land	Connecting road: Mandvi bhuj highway 260m south Waterbody: 170m Forest Area: Kera Reserve Forest at a distance of 2.41 km SE from WTG location	Structure Identified as small house		
	42Q 576882.00 m E	0576975: 2550548	Bandhara Nana	Govt. land	Open scrub	Structures	290 m E	Undulating land	Open scrub land in the surrounding Agricultural field: 180m SE Forest Area: Moto Tholo Reserve Forest at a distance of 2.11 km E from WTG location	Structure identified as a single house	STRUCTURE 1	
BHO 111	2550827.00 m N	0577175: 2550806	Bandhara Nana	Govt. land	Open scrub	Structures	300 m SE	Undulating land		Structure identified as a single house	STRUCTURE 2	
BHO 27	42Q 565846.00 m E 2559859.00 m N	42Q 565691.00 m E 2559603.00 m N	Sedata village	Govt. land	Open scrub	Structure	300m SW	Undulating land	Agricultural field: 240m W Natural water channel: 330m east Forest Area: No Reserved Forest boundary within 3 Km from WTG location	Structure identified as farm house, cow shed and servant quarter		

environmental & social impact assessment											
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Laı	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph
		42Q 582742.00 m E 2555909.00 m N	Sakrai Timbo village	Govt. land	Open scrub	Structure	110m south	Flat land	Forest Area; Wadli Reserve Forest is located more than 1km south from the WTG location.	Structure recognised as a Single house	
		42Q 582542.00 m E 2555819.00 m N	Sakrai Timbo village	Govt. land	Open scrub	Structure	210m SE	Flat land		Structure recognised as a Single house	
BHO 76	42Q 582534 2555943	42Q 582291.00 m E 2555737.00 m N	Sakrai Timbo village	Govt. land	Open scrub	Structure	130m NE	Flat land		Structure recognised as a Single house	Comprises
		582284.00 m E 2556046.00 m N	Sakrai Timbo village	Govt. land	Open scrub	Structure	260m NW	Flat land		Structure recognised as a Single house	
		42Q 582582; 2556059	Sakrai Timbo village	Govt. land	Open scrub	Structure	125m (N)	Flat land		Structure recognised as a Single house	
BHO 24	42Q 565681.00 m E 2561233.00 m N	42Q 565587.98 m E 2560922.60 m N	Meghpar village	Govt. land	Open scrub	Structure	220 m SW	Undulating land	Stone Quarry: 240m west Forest Area: Bhuj Reserve Forest at a distance of 2.75 km N from WTG location	RECEPTOR identified as a small temporary Labour shed (Same receptor for BHO 25)	

environmental & social impact assessment												
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	La	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph	
KUT 73	42Q 551097 2566611	42Q 550733; 2566823	Nagiyari village	Govt. land	Open scrub	Structure	175m (NW)	Undulating land	Agricultural field: 95m NW Approach road: 139m east	Receptor identified as a single house		
KUT18	42Q 542037; 2558204	42Q 542325; 2558047	Ajapaar Village	Govt. land	Open scrub	Major part of Ajapaar village Considering the Nearest house of the village	308m SE	Undulating terrain	Agricultural field at the distance of 170m Forest Area: Nabhoi Reserve Forest boundary at a distance more than 2km N	Nearest house of the village		
BHO 34	42Q 570952.82 2559539.10	42Q 570495.65 m E 2559489.45 m N	Jadura village	Govt. land	Open scrub	Structure and agricultural field	460m	Hilly undulating terrain	Open scrubland in the surrounding Agricultural field; 150m SE Forest Area: Bhuj Reserve Forest at a distance of 2.63 km N from WTG location	Structure identified as a single house		
KUT 90	42Q 540871; 2562997	42Q 540591; 2562840	Kurbai village	Govt. land	Open scrub	Structure	320 m SW	Undulating terrain	Forest Area: Gudkar Reserve Forest boundary at a distance more than 1.15km E Water body: 330m NW	Structure recognised as a Single house		
BHO 122	42Q 572589 2555041	42Q 572805.47 m E; 2555277.44 m N 42Q	Sanosara village	Govt. land	Open scrub	Agricultural land Structure (Rec 1 & 2)	140m East 400m N 320m NE	Hilly undulating terrain	Open scrubland in the surrounding Forest Area: Nana Dhola Reserve Forest and Bandra Mota Reserved Forest at a distance of 1.64 km W and 1.41 Km SW	Structure identified as a single house	Constitute	

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WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph
		572646.65 m E							respectively from WTG location		
		2555433.15 m N									
KUT 19	42Q 541678; 2558626	42Q 542023; 2558590	Ajapar village	Govt. land	Open scrub	Structure	350 m SE	Undulating terrain	Ag. Field: 164m SE Forest Area: Nabhoi Reserve Forest boundary at a distance of 1.5km N	Structure recognised as store house	
		42Q 547531.22, 2567414	Deshalpar village	Govt. land	Open scrub	Structure	360 m N	Flat land	Ag. Field : 220m Forest Area: No Reserve Forest boundary within 1km	Structure identified as store house	Structure 1
KUT 59	42Q 547571; 2567048	547926.78 m E; 2567264.56 m N	Deshalpar village	Govt. land	Open scrub	Structure	420m east	Flat land	Ag. Field : 220m Forest Area: No Reserve Forest boundary within 1km	Big farm house named as Narmada Nirali Bagh	Receptor 2
BHO 132	42Q 572763 2554703	42Q 572850.41 m E 2554450.91 m N	Bandhara Mota village	Govt. land	Open scrub	Agricultural land and small structure 270m south	Agricultur al field: 370m N and 270m SE Structure: 270m SE	Hilly undulating terrain	Drain: 230NE Stone quarry: 320m E Forest Area: Bandra Mota Reserve Forest at a distance of 1.16 km SE from WTG location	Structure identified as a single house	

environmenta	environmental & social impact assessment												
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph		
BHO 133	42Q 572550 2554192	42Q 572846; 2554448	Bandhara Mota village	Govt. land	Open	Agricultural land and small structure	Structure: 400m NW Agricultur al field: 280m east	Hilly undulating terrain	Connecting road: 290m E Open scrubland in the surrounding Forest Area: Bandra Mota Reserve Forest at a distance of 0.63 km SW from WTG location				
BHO 95	42Q 588061 2560033	42Q 588018 m E 2560383 m N	Gandher village	Govt. land	Open scrub	Structure	380m North	Plain flat land	Open scrubland in the surrounding Forest Area: Nigal Reserve Forest at a distance of 1.56 km E from WTG location	Structure identified as a single store house			
BHO83	42Q 583435.00 m E 2563132.00 m N	42Q 583238; 2563485	Vavdi village	Govt. land	Open scrub	Structure	420m NW	Undulating land	Agricultural field -260 south Forest Area: No Reserve Forest within 3 Km from WTG location	Structure identified as single house			
BHO 63	42Q 582867.00 m E 2563601.00 m N		Vadva village				390m SE		Forest Area: No Reserve Forest within 3 Km from WTG location				

environmenta	al & social impact asse	ssment	_	_							
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Laı	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph
OLD19	42Q 555123.00 m E 2555556.00 m N	42Q 555181.79 2556021.93	Meghpar village	Govt. land	Open scrub	Structure	410 m N	Flat land	Connecting road: Mandvi bhuj highway 260m south Waterbody: 170m Forest Area: Kera Reserve Forest at a distance of 2.41 km SE from WTG location	Structure Identified as small house.	
	233330.00 III N	555561.85 2555497.11	Meghpur village	Govt. land	Open scrub	Single house	450m E	Flat land		Identified as a commercial establishment	
BHO 116	42Q 571504 2555094	42Q 571510.63 m E 2555529.20 m N	Sanosara village	Govt. land	Open scrub	Structure	420m North	Hilly undulating terrain	Natural water channel: 300m east Open scrubland in the surrounding Forest Area: Nana Dhola Reserve Forest at a distance of 0.38 km W from WTG location	Structure identified as a single house.	Gan(ACT)
KUT26	42 Q 543908; 2559605	42Q 543709; 2559229	Vadasar village	Govt. land	Open scrub	Structure	430m SW	Undulating terrain	No forest land involved Water body: Not within 500m radius Village road: 315m west	Receptor photograph not take as it was at a distance 430m SW	
BHO31	42Q 570525.00 m E 2560563.00 m N	42Q 570379.63 2560981.95	Jadura village	Govt. land	Open scrub	Structure	450m NW	Slightly undulating land	Natural water channel: 320m E Rocky terrain, open scrub land in the surrounding Forest Area: Bhuj Reserve Forest at a distance of 1.63 km N from WTG location	Structure identified as group of houses	

environmenta	al & social impact asse	ssment	_						_		
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of the village/h	e nearest House	Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 35	42Q 571704 2559458	571583.64 m E 2559019.50 m N	Jadura village	Govt. land	Open scrub	Group of houses	450m S	Slightly undulating land	Rocky terrain, open scrub land in the surrounding	Structure identified as group of houses	
KUT 30	42Q 537560; 2564140	42Q 537134; 2564262	Kurbai village	Govt. land	Open scrub	Structure	450m NW	Undulating terrain	Water body: Not within 500m radius Forest Area: Mangwana Reserve Forest boundary at a distance of 525m north west	Structure recognised as water treatment plant of Gujarat Water supply & Sewerage board	
BHO 87	42Q 587587 2561091	587974.33 m E 2561241.56 m N	Gandher village	Govt. land	Open scrub	Single house	410m NE	Flat land	Agricultural field: 60m SW	Identified as a single house	
BHO 121	42Q 572364 2555311	572646.00 m E 2555433.00 m N	Sanosara	Govt. land	Open scrub	Single house	310m NE	Undulating terrain		Identified as a single house	
BHO 126	42Q 569964 2553955	570447.09 m E 2554010.68 m N	Vadajar	Govt. land	Open scrub	Single house	480m E	Undulating terrain		Identified as a single house	
BHO 32	42Q 570678 2560173	NA	Jadura	Govt. Iand	Open scrub	NA	NA	Hilly undulating terrain	Open scrubland in the surrounding	No structure	
BHO 33	42Q 570894 2559897	NA	Jadura	Govt. land	Open scrub	NA	NA	Hilly undulating terrain	Open scrubland in the surrounding	No structure	

environmenta	al & social impact asses	sment		_					_		
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Laı	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 36	42Q 573148 2561301	NA	Reha Nana Village	Govt. land	Open scrub	NA	NA	Rocky terrain	Open scrubland in the surrounding	No structure	
BHO 37	42Q 573275 2560989	NA	Reha Nana Village	Govt. land	Open scrub	NA	NA	Rocky terrain	Open scrubland in the surrounding	No structure	
BHO 45	42Q 575224 2562260	NA	Reha Mota Village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 46	42Q 575504 2561752	NA	Reha Mota Village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 56	42Q 579923.49 2563722.97	NA	Vadva village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 57	42Q 580733.57 2563686.51	NA	Vadva village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 58	42Q 581451.79 2563565.02	NA	Vadva village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 61	42Q 581718 2562308	NA	Vadva village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 62	42Q 582487 2562318	NA	Vadva village	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO 70	42Q 581342 2558929	NA	Sakrai Timbo village	Govt. Iand	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO-077	42Q 582045 2558900	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO-078	42Q 582231 2558578	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO-079	42Q 582999 2558598	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO-080	42Q 583117 2558292	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO-081	42Q 583242 2558016	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	
BHO-082	42Q 583477 2557764	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure	

environmenta	al & social impact asses	sment			_			_	_	_	_	
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Laı	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph	
BHO-084	42Q 585983.09 2562223.34	NA	Gandher	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure		
BHO-086	42Q 585820.27 2561853.42	NA	Gandher	Govt. land	Open scrub	NA	NA	Rocky terrain	Hilly Terrain	No structure		
BHO-100	42Q 569914 2559351	NA	Jadura	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-102	42Q 575501 2562087	NA	Reha Mota	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-105	42Q 576991 2551836	NA	Bandhara Nana	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-106	42Q 577609 2551763	NA	Bandhara Nana	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-107	42Q 577889 2551562	NA	Bandhara Nana	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-108	42Q 578358 2551433	NA	Bandhara Nana	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-115	42Q 586060 2561611	NA	Gandher	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO 117	42Q 571382 2554773	NA	Sanosara	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-118	42Q 571299 2554378	NA	Sanosara	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-120	42Q 572287 2555777	NA	Sanosara	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-123	42Q 569671 2554588	NA	Vadajar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-125	42Q 569254 2554051	NA	Vadajar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-134	42Q 571809 2552484	NA	Bandhara Mota	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-144	42Q 559953 2561561	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-146	42Q 560104 2560851	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		

environmental & social impact assessment								_	_	_		
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph	
BHO-147	42Q 560091 2560442	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
BHO-150	42Q 559900 2561941	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-63	42Q 548753 2567534	NA	Kanpar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-48	42Q 539460 2565089	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-49	42Q 539484 2564618	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-46	42Q 540032 2562380	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-45	42Q 540406 2562089	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-44	42Q 540181 2561598	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-43	42Q 540050 2561028	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-42	42Q 539265 2560944	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-41	42Q 539050 2561301	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-38	42Q 538260 2561291	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-37	42Q 538121 2561689	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-33	42Q 537218 2562899	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-31	42Q 537462 2563676	NA	Kurbai	Govt. Iand	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-27	42Q 544197 2559371	NA	Vadasar	Govt. Iand	Open scrub	NA	NA	Rocky terrain		No structure		
KUT-09	42Q 544344 2557070	NA	Vadasar	Govt. Iand	Open scrub	NA	NA	Rocky terrain		No structure		

environmenta	I & social impact asses	sment									
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of th village/l		Topography	Site Surroundings	Remarks/Observations	Photograph
OLD-01	42Q 558733 2562341	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-02	42Q 558931 2562051	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-03	42Q 558491 2561170	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-04	42Q 558564 2560797	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-05	42Q 558548 2560046	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-06	42Q 558649 2559709	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-07	42Q 559760 2562256	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-08	42Q 558807 2559392	NA	Naranpar Ravli	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-09	42Q 556829 2562869	NA	Bharasar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-10	42Q 556754 2562133	NA	Bharasar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-11	42Q 557268 2562774	NA	Bharasar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-13	42Q 555905 2559716	NA	Godpar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
OLD-17	42Q 556924 2558124	NA	Meghpar	Govt. land	Open scrub	NA	NA	Rocky terrain		No structure	
NEW 53 WT	G LOCATIONS	S IDENTIFIEI	D IN JULY	2017 B	Y OKW	PL					
BHO 65	42Q 579740 2559083	NA	Harudi	Govt. Iand	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHO 66	42Q 579444.66 2558707.96	NA	Harudi	Govt. Iand	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	

environmenta	al & social impact asses	ssment									
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Laı	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 68	42Q 580473 2557703	NA	Sakrai Timbo	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 71	42Q 581222 2558316	581233.47 2557925.09	Sakrai Timbo	Govt. land	Open scrub	Single house/store	390m S	Rocky terrain		Google earth observation shows a single structure – ground truthing required	
BHO 85	42Q 586882.39 2562513.97	NA	Gandher	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHO 99	42Q 591885.36 2562591	592058.19, 2562779.62	Chubdak	Govt. land	Open scrub	Single structure	269m NE	Rocky terrain		Google earth observation shows a single structure – ground truthing required	
BHO 98	42Q 592046.84 2562049.41	592263.01, 2561867.94	Chubdak	Govt. land	Open scrub	Single structure	280m SE	Rocky terrain		Google earth observation shows a group of houses – ground truthing required	
BHO 97	42Q 591006.9 2562026.64	NA	Chubdak	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 109	42Q 577009 2551482	NA	Bandhara Nana	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 110	42Q 577046 2551146	577170.64, 2550803.1	Bandhara Nana	Govt. land	Open scrub	NA	360m SE			Google earth observation shows a single structure – ground truthing required	
BHO 112	42Q 577903 2551177	NA	Bandhara Nana	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	

environmenta	l & social impact asses	ssment							_	_	
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 114	42Q 587311 2562287	587680.67, 2562186.79	Gandher	Govt. land	Open scrub	Structure	370m SE			Google earth observation shows a group of houses – ground truthing required	
BHO 124	42Q 569469 2554357	NA	Vadajar	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 145	42Q 560022 2561200	NA	Naranpar	Govt. Iand	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 156	42Q 571369 2560854	Structure 1 : 571046.38, 2561106.27 Structure 2: 571502.02, 2561200.51	Jadura	Govt. land	Open scrub	2 Structures	400m NW 370m NE	Rocky terrain		Google earth observation shows a settlement in once direction and a group of 7-8 houses on one side – ground truthing required	
BHO 157	42Q 571610 2560590	NA	Jadura	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 164	42Q 537415 2564445	537202.50 2564335.83	Kurbai	Govt. land	Open scrub	Structure	210m	Rocky terrain		Google earth observation shows a water treatment plant and an office complex – ground truthing required	
BHO 165	42 q 540226 2564037	Structure 1: 539985.15 2563947.72 Structure 2: 539808.26, 2564057.54	Kurbai	Govt. land	Open scrub	2 structures	250m SW 410m W	Rocky terrain		Google earth observation shows a settlement and a group of houses in proximity – ground truthing required	
BHO 166	42Q 538155 2562092	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	

environmenta	l & social impact asses	ssment	_	_		_		_			
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lar	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 167	42Q 539092 2562230	538943.95 2562669.77	Kurbai	Govt. land	Open scrub	Structure	470m NW	Rocky terrain		Google earth observation shows a small structure – ground truthing required	
BHO 168	42 Q 537705 2563418	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 169	42 Q 541166 2562667	NA	Kurbai	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 175	42Q 556300 2560694	NA	Godpar Sarli	Govt. land	Open scrub	NA	NA	Rocky terrain		New location , no structure observed via Google earth. Ground truthing required	
BHO 176	42Q 555846 2560057	NA	Godpar Sarli	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHO 180	42Q 551883 2567732	NA	Nagiyari	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHO 189	42Q 548432 2564780	Structure 1 548605.79, 2564963.19 Structure 2: 548790.28, 2564831.51	Samatra	Govt. land	Open scrub	Structure 1: 250m NE Structure 2: 370m E	NA	Rocky terrain		Google earth observation shows some houses in the NE direction and some houses along with TV tower in east – ground truthing required	Waster and Title Co. All
BHO 193	42Q 548328 2567036	Structure 1: 548090.03, 2567106.61 Structure 2: 547996.56, 2567282.65	Kanpar	Govt. land	Open scrub	Structure 1: 240m NW Structure 2: 410m NW	NA	Rocky terrain		Google earth observation shows some houses in the NE direction—ground truthing required	
BHO 194	42Q 548753 2567913	NA	Nagiyari	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHO 197	42 Q 541810 2559834	NA	Ajapar	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	

environmenta	al & social impact asses	sment		_		_		_			
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	La	nd	Name of th village/		Topography	Site Surroundings	Remarks/Observations	Photograph
BHO 198	42 Q 542953 2560371	NA	Ajapar	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHO 199	42 Q 542333 2557510	542320.44, 2557852.90	Ajapar	Govt. land	Open scrub	Ajapar village	350m N	Rocky terrain		Google earth observation shows Ajaapar village in the north direction– ground truthing required	
BHE 08	42Q 543237 2554651	Structure 1 542933.77, 2554663.63 Structure 2: 542986.65, 2554303.03	Ludva	Govt. land	Open scrub	Two structures	290m W 430m SW	Plain land		Google earth observation shows some houses in the west and NW direction– ground truthing required	
BHE 09	42Q 543092 2555022	NA	Ajapar	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 10	42Q 541495 2556282	541242.78, 2556199.24	Ludva	Govt. land	Open scrub	Structure	270m SW			Google earth observation shows a small structure in SW direction–ground truthing required	
BHE 11	42Q 540518 2557125	NA	Virani	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 12	42Q 540511 2557498	NA	Virani	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 13	42Q 540182 2557719	NA	Virani	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 14	42Q 539914 2557966	NA	Virani	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 15	42Q 540050 2558373	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	

environmenta	al & social impact asses	sment	_	_							
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	La	nd	Name of th village/		Topography	Site Surroundings	Remarks/Observations	Photograph
BHE 16	42Q 539753 2558602	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 17	42Q 539404 2558964	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 18	42Q 539147 2559209	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 19	42Q 538982 2559498	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 20	42Q 538763 2559881	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 21	42Q 539046 2560453	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 22	42Q 540415 2559644	540581.81, 2559403.82	Nabhoi Moti	Govt. land	Open scrub	Nabhoi village	300m SE	Rocky terrain		Google earth observation shows a settlement – ground truthing required	
BHE 23	42Q 540291 2559969	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 24	42Q 540059 2560232	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 25	42Q 539939 2560542	NA	Nabhoi Moti	Govt. land	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	

environinenta	al & social impact asses	Sament									
WTG Identification No.	Coordinate of WTG	Geographical coordinates of receptor	Location	Lan	nd	Name of the village/h		Topography	Site Surroundings	Remarks/Observations	Photograph
BHE 26	42Q 537656 2559039	Structure1; 537431.58, 2559296.86 Structure 2: 537312.76, 2559343.52	Filon	Govt. land	Open scrub	2 structures	350m NW 460m NW	Rocky terrain		Google earth observation shows two small structures– ground truthing required	
BHE 27	42Q 537912 2558793	NA	Filon	Govt. Iand	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 28	42Q 538334 2557982	NA	Filon	Govt. Iand	Open scrub	NA	NA	Rocky terrain		New location, no structure observed via Google earth. Ground truthing required	
BHE 29	42Q 538778 2557387	538485.78, 2557136.62	Virani	Govt. land	Open scrub	Settlement	390m SW			Google earth observation shows Virani Gadh settlement in SE direction– ground truthing required	

APPENDIX H

ILO guidelines

No.6



Workers' housing

to be made available.

The following guidance is based on international labour standards. National or state regulation will often set baseline specifica-tions as part of housing, labour, health or even fire safety regulations, they should be checked and followed. National employ-ers and workers organizations may also be a good source of information on national law, collective bargaining agreements and customs pertaining to housing for workers; or may be able to refer you to the appropriate stalutory authority.

Guiding principles

In providing worker' housing, the ob-jective should be to ensure "adequate and decent housing accommodation and a suitable living environment"? for workers. This includes upleep, improvement and modernisation of housing and related community facilities.²

It is "generally not desirable that employers it is generally not desirable that amployers should provide housing for their workers directly. Employers are encouraged to help their workers to obtain housing through autonomous private agencies, public housing

Housing provided to workers as part of the employment contract about meet certain mistmus specifications in respect of the nature and
standard of the accommodation and bacilities to be less integrated into the local commuworkers thing at the work site on property owned or controlled by the employer tend to be less integrated into the local community, and more dependent on the employer, However, certain circumstances, such as when an undertaking is located far from normal centres of population, or where the nature of the employment requires that the worker should be available at short notice d) beds should not be arranged in tiers of worker should be awarance to make reason the major require the employer to provide housing to his or hor workers. I bedding materials should be reasonably comfortable.

If housing is provided by the employer "the fundamental human rights of the workers, should be designed to deter verming." If nousing a provided by the employer the fundamental human rights of the workers, in particular freedom of association, should be recognised. Arrangements where accommodation and communal services are provided as payment for work about take care. to ensure that the interests of the workers
are protected. If rent is charged, it should
not cost the worker more than a reasonable

proced movement of air in all conditions. proportion of his or her income."

Siting and construction

The housing and related community fa-cilities should be of durable construction, taking into account local conditions, such as liability to earthquakes.¹

The location of workers' housing should ensure that workers are not affected by air pollution, surface run-off or sewage or other wards. 3**

The location of workers' housing should be locked by the occupant to ensure privacy; p

- E R. 115, Part W, paragraph 19(1), F R. 115, Part W, paragraph 19(2).
- * R. 115. Perl *V. peragraph 12(3a). * B. 115, Parl II, peragraph 4: Perl IV, paragraph 12(3c) end (4).
- FR. 116, Suggestions Concerning Methods of Ap-plication, Park I, paragraphs 10-11.
- ¹⁰ R. 110. Suggestions Concerning Vetnods of Approaches, Part IX, paragraph 61.

Housing Standards

- Housing should ensure "structural safety and reasonable levels of decency, hygiene and comfort. 11 The undertaking should ensure the following:
- a) a separate bed for each worker;
- adequate headroom, providing full and free movement, of not less than 203 centimetres;
- c) the minimum inside dimensions of a sleeping space should be at least 198 centimetres by 80 centimetres:

- cient movement of air in all conditions of weather and climate.
- k) heating where appropriate
- Il adequate supply of safe potable water;
- m) adequate sanitary facilities (see below);
- n) adequate drainage;
 o) adequate furniture for each worker to. secure his or her belongings, such as a ventilated clothes tooker which can be locked by the occupent to ensure privacy;
 - sleeping areas;
- g) appropriately situated and furnished laundry facilities;
- r) reasonable access to telephone or other modes of communications, with any charges for the use of these serv-loss being reasonable in amount; and

n R. 115, paragraph 19.

^{*} Workers' likeling Reconstructedion, 1961 (No. 175). The section estilled "Suggestions concerning methods of application," Part 1, paragraph 5, ercourages "equality of treatment between negativeness and national workers." Herefore, It's galaerios applies equally to migrant workers and sellonal

^{* 8, 115,} General Principles, Part III, peragraph 2, * 9, 115, paragraph 3, * 8, 115, Part IV, paragraph 12021.

s) rest and recreation rooms and health facilities, where not otherwise available in the community.

In workers' sleeping rooms the floor area should not be less than 7.5 square metres in rooms accommodating two persons; 11.5 square metres in rooms accommodating three persons: or 14.5 square metres in rooms accommodating four persons. If a room ac commodates more than four persons, the floor area should be at least 3.6 square metres per person. Rooms should indicate the permitted number of occupants.

As far as practicable, sleeping rooms should be arranged so that shifts are separated and that no workers working during the day share a room with workers on night shifts. Provisions should be made for workers' physi-cal safety and well-being, and protection of their belongings. Measures should be reasonable and not unduly restrict workers' freedom of movement. Workers should be allowed visits for social relations or business, including trade union business.¹²

Inspection of premises

Premises should be inspected frequently to ensure that the accommodation is clean, decently habitable and maintained in a good state of repair. The results of each such inspection should be recorded and he available for review

Sanitation facilities

Adequate sanitary facilities should include nimum of one toilet, one wash basin and one tub or shower for every six persons. They should be provided at a convenient location which prevents nuisances. Sanitary facilities provided should meet minimum standards of health and hygiene. They should also provide reasonable standards of comfort, including hot and cold fresh running water. There should be separate sanitary facilities provided for men and for women. Sanitary facilities should have ventilation to the open air, independently of any other part of the accommodation. Soap and hygienic paper should be adequately stocked.

Health and safety

As far as possible, floors walls, ceilings and equipment should be constructed to minimize health risks.

The accommodations should be kept free of rats, mice, insects and vermin. In areas where mosquitoes are prevalent, workers should be provided netting.

Measures should be taken to prevent the spread of diseases. Separate facilities should be provided for sick workers to prevent the spread of transmissible diseases among the occupants. Fire safety measures should be taken, including installing and maintaining fire equipment (alarms, extinguishers, etc.). Workers should be trained in fire procedures. Bedding should not contain flammable materials. Radiators and other heating apparatus should be placed so as to avoid risk of fire, and shielded where necessary to prevent discomfort to occupants.

Safety exits should be clearly marked. Adequate means of escape should be provided and properly maintained.

Vacating the premises upon termination of employment

When a worker's contract of employment is terminated, the worker should be entitled to a reasonable period of time to vacate the premises, in accordance with national law and custom.13

Consultation

in the design of housing for workers, "every effort should be made to consult those bodies representative of future occupants best able to advise on the most suitable means of meeting their housing and environmental needs."14

References

- Workers' Housing Recommendation, 1961 (No. 115); full text available at: http://www.ilo.org/ilolex/english/recdisp1.
- For comparison, you may also wish to consult the Maritime Labour Convention (MLC), 2006, Title 3, which gives detailed guidance for workers' accommodation for seafarers; full text available at: http://www.ilo.org/ilolex/cgi-lex/convde. pl?C186.

R. 115, Suggestions Concerning Methods of Application, Part IV, paragraph 17.
 R. 115, General Principles, Part IV, paragraphs 17(3b) and Suggestions Concerning Methods of Application, Part IV, paragraph 15.

¹⁶ R. 115, Suggestions Concerning Methods of Ap-plication, Part IX, paragraph 42.

ILO Helpdesk **Multinational Enterprises Programme** International Labour Office 4, route des Morillons 1211 Geneva 22, Switzerland Tel: +41.22.799.6264 Fax: +41.22.799.6354

assistance@ilo.org

APPENDIX I

Ostro Energy EHS Policy



HEALTH AND SAFETY POLICY

We, at Ostro, firmly believe that health & safety of our employees and contractors is of utmost importance. Ostro is committed to practice, promote and inculcate best possible standards of health and safety in its business. We believe that Safety is Everyone's Responsibility and Line Management has a leadership role in implementation of, and ensuring compliance with HSE policies and standards. In pursuit of our belief and commitment, we strive -

- To ensure that all employees and contractors work in safe working conditions.
- To identify and eliminate all risks by taking adequate preventive measures.
- · To provide health and safety training to all relevant persons.
- To establish, maintain and practice a certifiable occupational health and safety management system (OHSAS: 18001).
- To ensure that all activities are in compliance with applicable health and safety regulations.

Ostro is committed to develop a culture of safety through active leadership at all levels and making sure that resources are made available to implement this policy.

This policy is applicable to all business and project related activities of Ostro Energy. All employees and contractors of Ostro are required to adhere to this policy.

Ranjit Gupta-Chief Executive Officer

Date: January 2015

Ostro Energy: Health and Safety Policy-Revision-0

APPENDIX J

Grievance Redressal Mechanism

41	OSTR	Ogjister fo	r Decumenting Community Grievances- (Site name) Project	tasues, gri datails. Ac	sheet has to be evances receive dions taken to re is team should b			
S.N	Project Name	Understand the granders was noted	Community Grievances	Vilage	Sale when the grinning wis resolved	How was the Bricowice, was addressed/resolved	Total random of day, required to resolve the glievence	What would entered at the community tour on Octon Operations!
1								
2								
		1						

APPENDIX K

Ambient Air Quality Monitoring Results

S. N	Village	Date of Sampling	1	2	3	4	5
			PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m³	CO mg/m ³
1	Ler village	02/05/2017)	57.98	26.30	7.63	14.10	<0.2
2	Ajaapar Village	02/05/2017)	63.51	31.75	9.18	16.58	<0.2
3	Gandher Village	(3/05/2017)	59.55	29.17	9.06	14.82	<0.2
	CPCB limit		100	60	80	80	2

APPENDIX L

Surface water quality monitoring results

			Surface	Water
S. N.	Parameter	Unit	Ler Village Pond	Jamura Pond
1	рН		6.66	7.96
2	Colour		10	10
3	Odour		Objectionable	Objectionable
4	Electrical Conductivity	mS/cm	4866	4172
5	Dissolved Oxygen	mg/l	4.8	5.2
6	Biochemical Oxygen Demand	mg/l	16.0	14.5
7	Chemical Oxygen Demand	Mg/I	88.0	70.0
8	Total Dissolved Solids	mg/l	3243	2763
9	Oil & Grease	mg/l	<2.0	<2.0
10	Total Hardness	mg/l	1314	1116
11	Chloride	mg/l	987.0	795.0
12	Sulphate	mg/l	729.0	636.0
13	Nitrate	mg/l	12.6	11.3
14	Fluoride	mg/l	1.42	1.34
15	Iron	mg/l	0.30	0.26
16	Mercury	mg/l	<0.001	<0.001
17	Zinc	mg/l	0.21	0.18
18	Total Coliform	MPN/100ml	140	170
19	Faecal Coliform		50	80

APPENDIX M

Groundwater quality monitoring results

				Naranpur	Jadura	IS 105	00: 2012
S.N		Unit		village GW-	village GW-	Acceptab	Permissibl
	Parameters	S	Test Methods	01	02	le limit	e limit
1	Temperature	°C		42	43		
			APHA 4500-	-			
2	pH Value	-	H+B	7.87	7.53	6.5 – 8.5	
3	Turbidity	NT U	APHA - 2130 - B	<1.0	<1.0	1	5
3	Total	U		<1.0	<1.0	l l	3
	Hardness (
4	as CaCO ₃)	mg/l	APHA 2340 - C	178.0	218.0	200	600
							No
5	Iron (as Fe)	mg/l	APHA -3111-B	0.11	0.13	0.3	relaxation
	Chlorides (as		APHA 4500-				
6	CI)	mg/l	CL-B	102.0	113.0	250	1000
7	Fluorides (F)	mg/l	APHA - 4500 - F- B	0.03	0.04	1	1.5
8	TDS	_	APHA -2540-C	335.0	415.0	500	2000
		mg/l					
9	Calcium	mg/l	APHA -3111-B	42.0	47.5	75	200
10	Magnesium	mg/l	APHA -3111-B	17.2	24.0	30	100
11	Copper	mg/l	APHA -3111-B	<0.05	<0.05	0.05	1.5
12	Nitrate (as		IC 0005 D 04	1.00	0.04	45	No
12	NO ₃)	mg/l	IS 3025 P-34	1.60	2.84	45	relaxation No
13	Mercury	mg/l	IS: 3025 (P-48)	<0.01	<0.01	0.001	relaxation
14	Arsenic	mg/l	IS: 3025 (P-37)	<0.01	<0.01	0.01	0.05
15	Zinc	mg/l	APHA -3111-B	<0.05	<0.05	5	15
16	Alkalinity	mg/l	APHA -2320-B	135.0	146.0	200	600
		MP					
		N/1					
	Total	00m					No .
17	Coliform	1	IS:1622 :1982	Absent	Absent	10	relaxation
		MP N/1					
	Fecal	00m				No	No
18	Coliform	I	IS:1622 :1982	Absent	Absent	relaxation	relaxation

APPENDIX N

Quadrate Analysis

Quadrate A

Date: 22.3.2017 Time: 4:45 PM Total area: 900m2

Location: Near Godpar village

Distance from nearest settlement: 1.73 KM Layer: Two layers, grass and shrubs

Coordinate: 555427.00 m E, 2554733.00 m N

Name of the tree	Height (average)	Number/percentage coverage
Acacia nilotica	1-2 meter	50
Cassia sp.	0.5-1meter	24
Zizyphus nummularia	1-1.5 meter	13
Euphorbia caducifolia	1.5-2 meter	110

Percentage of bare soil: 70%

Quadrate B

Date: 24.3.2017 Time: 11:00 AM Total area: 900m2

Location: Near Ajaapar Village

Distance from nearest settlement: 2.18 km Layer: Two layers, grass and shrubs

Coordinate: 543832.00 m E, 2559620.00 m N

Name of the tree	Height (average)	Number/percentage coverage
Prosopis juliflora	1-2 meter	18
Acacia nilotica	1-2 meter	6
Euphorbia caducifolia	1.5-2 meter	44

Percentage of bare soil: 95%

Quadrate C

Date: 23.3.2017 Time: 5:15 PM Total area: 900m2

Location: Near Chakar village

Distance from nearest settlement: 2 KM Layer: two layers, grass and shrubs

Coordinate: 573922.00 m E, 2553936.00 m N

Name of the tree	Helant (average)	Number/percentage coverage
Acacia nilotica	1-2 meter	38

Cassia sp.	1-1.5meter	57	
Prosopis juliflora	2 meter	29	
Euphorbia caducifolia	2-3 meter	14	

Percentage of bare soil: 90%

Quadrate D

Date: 24.1.2017 Time: 10:05 AM Total area: 900m2

Location: Near Kurbai Village

Distance from nearest settlement: 2.5 KM Layer: Two layers, grass and shrubs

Coordinate: 539319.00 m E, 2560929.00 m N

Name of the tree	Height (average)	Number/percentage coverage
Prosopis juliflora	2 meter	69
Euphorbia caducifolia	2-3 meter	75

Percentage of bare soil: 85%

Quadrate E

Date: 24.1.2017 Time: 1:20 PM Total area: 900m2

Location: Near Ashapura temple

Distance from nearest settlement: 4.5 KM Layer: Two layers, grass and shrubs Coordinate: 539319.00 m E, 2560929.00 m N

Name of the tree	Height (average)	Number/percentage coverage
Prosopis juliflora	2 meter	177
Acacia nilotica	1-1.5 meter	52
Cactus sp.	1.5 meter	19
Euphorbia caducifolia	2-3 meter	75

Percentage of bare soil: 40%

APPENDIX O

List of Flora Recorded in the Study Area

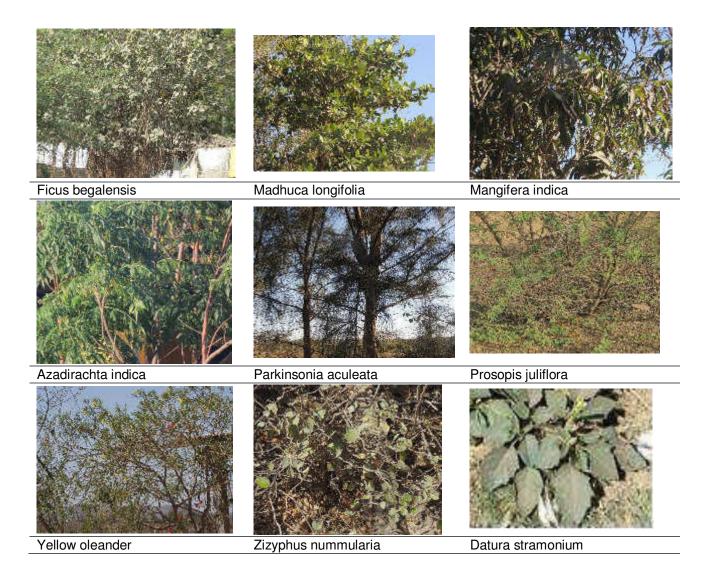
SI. No.	Family	Common Name	Scientific Name
1.	 Amaranthaceae 	Apang	Achyranthes aspera
2.	 Anacardiaceae 	Aam / Mango Tree	Mangifera indica
3.	 Annonaceae 	Ata / Custard Apple	Annona reticulata
4.	 Apocynaceae 	Akanda (Purple)	Calotropis gigantea
5.	 Apocynaceae 	Akanda (Purple) Another sp.	Calotropis procera
6.	 Apocynaceae 	Dudhaiya / Dyer's Oleander	Wrightia tinctoria
7.	 Apocynaceae 	Karabi	Nerium oleander
8.	 Apocynaceae 	Kath Champa / Pagoda Tree / Frangipani	Pumeria sp.
9.	 Apocynaceae 	Kolke Ful	Thevetia peruviana
10.	 Arecaceae 	Narkel / Coconut palm	Cocos nucifera
11.	 Arecaceae 	Taal / Palmyra palm	Borassus flabellifer
12.	 Asparagaceae 	Satamuli	Asparagus recemosus
13.	 Asteraceae 	Sonchus	Sonchus sp.
14.	 Bignoniaceae 	Roheda / Desert Teak	Tecomella undulata
15.	 Boraginaceae 	Lasora / Indian Cherry	Cordia dichotoma
16.	 Cactaceae 	Nagphana / Barbary Fig	Opuntia monocantha
17.	 Caesalpiniaceae 	Tanner's Cassia	Cassia auriculata
18.	 Capparaceae 	Capparis / Kair	Capparis decidua
19.	 Capparaceae 	Capparis / Kaliakera	Capparis sepiaria
20.	 Combretaceae 	Kath Badam / Indian Almond	Terminalia catappa
21.	 Convolvulaceae 	Dhol Kolmi/ Morning Glory Tree	 Ipomoea carnea
22.	 Euphorbiaceae 	Bajbaran / antique spurge	Euphorbia antiquorum
23.	 Euphorbiaceae 	Baro Dudhi	Euphorbia hirta
24.	 Fabaceae 	Amaltash	Cassia fistula
25.	 Fabaceae 	Babla/ Babool	Acacia nilotica
26.	 Fabaceae 	Jerusalem Thorn	Parkinsonia aculeate
27.	 Fabaceae 	Karanja / Pongam oiltree	Pongamea pinnata
28.	 Fabaceae 	Khair / Black Catechu	Acacia catechu
29.	 Fabaceae 	lal khair	Acacia chundra

SI. No.	Family	Common Name	Scientific Name
30.	 Fabaceae 	Krishnachura / Gulmohar	Delonix regia
31.	 Fabaceae 	Palash / Flame of the Forest	Butea monosperma
32.	 Fabaceae 	Siris	Albizia lebbeck
33.	 Fabaceae 	Sisoo / Shisham / Indian rose Wood	Dalbergia sisoo
34.	 Fabaceae 	Tentul / Tamarind	Tamarindus indica
35.	 Fabaceae 	Khirish	Albizia saman
36.	 Fabaceae 	Vilaiti Keekar / Vilaiti Babool	Prosopis juliflora
37.	 Malvaceae 	Jaba / Hibiscus	Hibiscus Sp.
38.	 Malvaceae 	Kapas Tulo / Cotton Plant	Gossypium indicum
39.	 Meliaceae 	Neem / Indian Lilac	Azadirachta indica
40.	 Mimosaceae 	Safed babul / White Bark Acacia	Acacia leucophloea
41.	 Moraceae 	Bot / Indian banyan	Ficus benghalensis
42.	 Moraceae 	Toot / Silkworm Mulberry	Morus alba
43.	 Moraceae 	Aswatha/ Peepal Tree	Ficus relogiosa
44.	 Myrtaceae 	Eucalyptus	Eucalyptus sp.
45.	 Myrtaceae 	Jam / Jamun	Syzygium cumini
46.	 Poaceae 	Durba	Cynodon dactylon
47.	 Poaceae 	Joar / Sorghum	Sorghum bicolor
48.	 Poaceae 	Pothika Gaddi	Eragrostis tenella
49.	 Rhamnaceae 	•	Zizyphus nummularia
50.	Rutaceae	Bel/ Bilva/ Bael	Aegle marmelos
51.	Simaroubaceae	Maha Neem / Maharukh / Tree of Heaven	Ailanthus excelsa
52.	 Solanaceae 	Dhutra (Kalo) / Devil's Trumpet	Dotura metel
53.	 Ulmaceae 	Suochakulte / Indian Elm	Holoptelea integrifolia
54.	 Verbenaceae 	Segun / Teak	Tectona grandis
55.	 Zygophyllaceae 	Hingot / Desert Date	Balanites roxburghii
56.	 Poaceae 	marvel grass	Dicanthium annulatum
57.	 Euphorbiaceae 	•	Euphorbia caducifolia
58.	 Sapotaceae 	Mahua	Madhuca longifolia
59.	 Apocynaceae 	Yellow Oleander	Cascabela thevetia
60.	 Euphorbiaceae 	Castor	Ricinus communis

APPENDIX P

Photo documentation of plant species in the study area

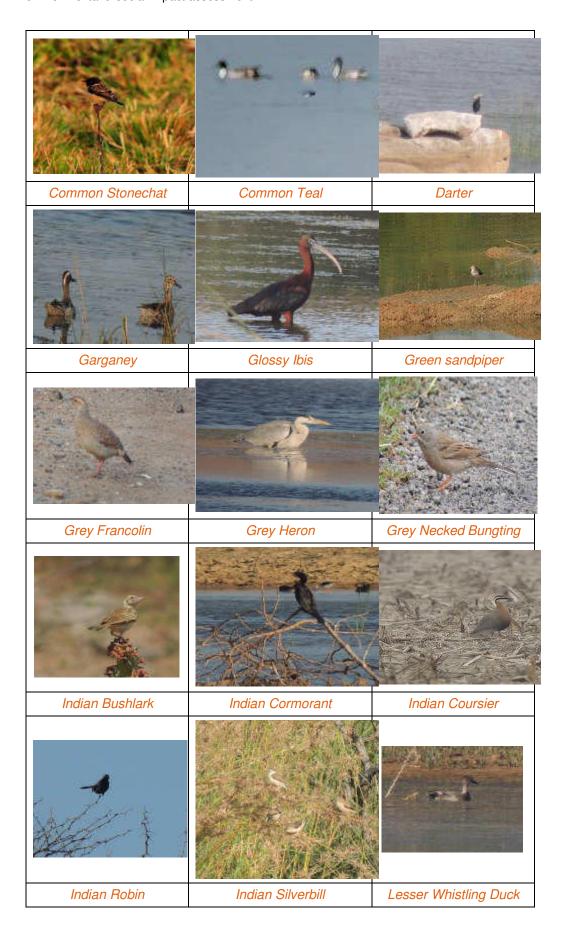


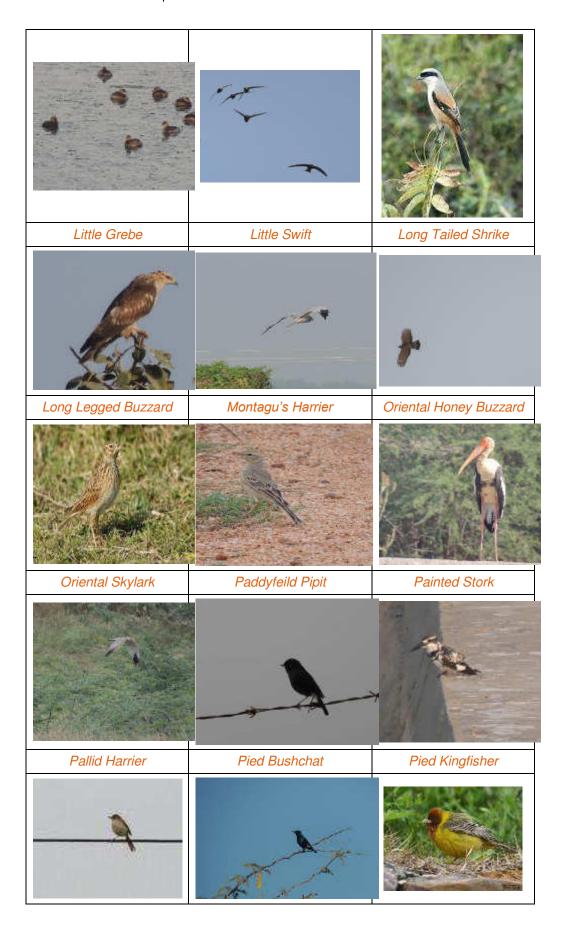


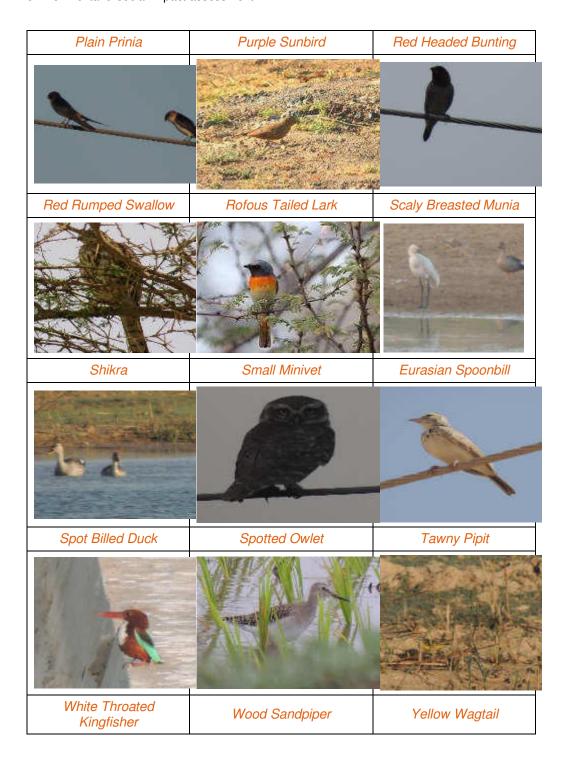
APPENDIX Q

Photo documentation of bird diversity in the study area









APPENDIX R

Socio economic questionnaire

Name of the village						Panchaya	t				
Tehsil/Block						District					
Respondent						I		Date:			
Total Population				Tota	al Male			To Fem		F	HH No.
Religion	Name			%	Name		%	ó			
	Name			%	Name		%	ó			
Caste/Group	1	Vame			%	Name		%	ó		
Education Level	Illit	erate %		Pri	mary %	Seconda %	ry	H.S	. %	G	raduate %
Occupation	Agriculture %			Вι	ısiness %	Service %		Labour %		С	Other %
Source Drinking water facility	Tube well		Dug well		Stream		Piped water		Hand pumps		
Sanitation facility	Pit	latrine %			anitary trine %	Open defecation %		Other %			
Electricity (Available %)						Electricity availability in HH					
Village road type/transport facility											
Schools (distance)	Р	rimary		٨	<i>liddle</i>	H. S. College		ege	An	ganwadi	
Health Facility (distance)	Health	sub Cen	tre	Р	rimary	Hospital Others		ers			
Major diseases											
Major crops cultivated	Name			eld acr)	Rate/q	Name	P	eriod	Yie (q/a		Rate/q
Irrigation Facility	Ponds			River	Groundwa	ater	Oth	ers			

Average land holding size								
Land rights								
Livestock	Cow	Buffalo	Goat	Pig	Fowl			
	Duck	Others						
Grazing areas								
Cooking medium and source	Fuel Wood	Kerosene	Cow Dung cake	Crop Residue	LPG			
	Others							
Common property Resources(CPR)	Religious and cultural places	Sacred places	Community hall	community Ponds	Cremation ground			
	Ctroome	l concl	with the state of	Othoro				
	Streams	canal	river	Others				
Major rituals and festivals	Name	Period	Name	Period				
Fishing area			e of the					
Forest	Wood	Timber	NTFP	Oth	ners			
Any Vulnerable Groups like- la	andless/homeless- ne	eonle Women	headed HH Or	nhans etc				
This value aloups like it	anaices, nomerces pe	opie, women	neduca i ii i, Oi	priario dio.				
Any program related to child /	women health care p	orogram						
Any employment generation p	orogram							
This employment generation p	rogram							
HH & Cottage industries in the	e village / area							
· · · · · · · · · · · · · · · · · · ·								
Any proposed Scheme / Prog	ram related infrastruc	ture / any ame	enities	_				
, p. epecca como, r. rog.am romaca amaca astaro, any amonitro								
Occurrence any Natural Calar	nities / industrial / ant	thropogenic Ha	azard					

APPENDIX S

World bank chance find procedure

These procedures were developed in accordance with the Lebanese regulations and the World Bank Guidelines - OP 4.11 of August 1999.

These procedures are included as standard provisions in construction contracts to ensure the protection of cultural heritage.

A clause for "Protection of Archaeological and Historical Sites" was added to all bidding documents for the works contract which explains the steps to follow whenever new archaeological remains, antiquity or any other object of cultural or archaeological importance are encountered during construction.

Protection of Archaeological and Historical Sites'

- 1- Excavation in sites of known archaeological interest should be avoided. Where this is unavoidable, prior discussions must be held with the Directorate of Antiquities in order to undertake pre-construction excavation or assign an archaeologist to log discoveries as construction proceeds. Where historical remains, antiquity or any other object of cultural or archaeological importance are unexpectedly discovered during construction in an area not previously known for its archaeological interest, the following procedures should be applied:
 - Stop construction activities.
 - b) Delineate the discovered site area.
 - c) Secure the site to prevent any damage or loss of removable objects. In case of removable antiquities or sensitive remains, a night guard should be present until the responsible authority takes over.
 - d) Notify the responsible foreman/archaeologist. Who in turn should notify the responsible authorities, the General Directorate of Antiquities and local authorities (within less than 24 hours).
 - Responsible authorities would be in charge of protecting and preserving the site before deciding on the proper procedures to be carried out.
 - f) An evaluation of the finding will be performed by the General Directorate of Antiquities. The significance and importance of the findings will be assessed according to various criteria relevant to cultural heritage including aesthetic, historic, scientific or research, social and economic values.
 - g) Decision on how to handle the finding will be reached based on the above assessment and could include changes in the project layout (in case of finding an irrevocable remain of cultural or archaeological importance), conservation, preservation, restoration or salvage.
 - Implementation of the authority decision concerning the management of the finding.
 - Construction work could resume only when permission is given from the General Directorate of Antiquities after the decision concerning the safeguard of the heritage is fully executed.

APPENDIX T

MOM of stakeholder consultations

Agenda	Stakeholder meeting for proposed 250 MW Wind Power Project in Kutch district, Gujarat		
Date of Meeting	24/03/2017 and 25/03/2017		
Venue	Panchayat office		
List of participants	Panchayat Members	Arcadis official	
participants	Krishna Ben, Village, Naranpar Pasayati	Alok Chandra Adhikari	
	Gobin Teja, • Village Reha Mota		
	Md. Kesar, Ahmad Prah, • Village Chubdak		
	JainendraSingh, • Village Bandara Mota		
	Lakha Bhai, • Village Jadura		
Iss	sues Discussed	Findings	
Socio-Economic condition in the study area Villages, available infrastructural facilities and their utilization by the local community Agricultural scenario and major Crops cultivated in study area villages (also the Irrigation Facility in study area villages)		Area is majorly dependent on agriculture, cattle rearing and allied activities for livelihood. Few agricultural activity which involves cultivation of Wheat, cotton, castor oil, pomegranate and groundnut is common.	
Health facilities in study area villages Sanitation facilities in study area villages		 Agriculture practiced is both Rain-fed as well as irrigated through pumps. 	
The circle rate of district and study area villages		It was informed on an average the ground water depth is more	
Market rates (Lar	nd) in study area villages	than 500-1000 ft. in the study area villages. However as per	
Average land holding Size in the study area villages		CGWB, the depth to water level in general varies from 5 mbgl to 10mbgl in the area.	
NOC from Panch	ayat	Sanitation facilities are inadequate in the villages and	
Ongoing Govt. so	chemes and programmes	some of households practice open defecation.	
		Health facility is not adequate in the village, which was also confirmed during field visit observations.	

	T
	The process is NOC not yet
	Initiated
Agenda	Stakeholder meeting for
	proposed 250 MW Wind Power
	Project in Kutch district, Gujarat
Date of Meeting	22/03/2017
Venue	Champa dala dargah, Sedata
List of participants	Dargah Member
	Md Muzawar, (Priest) ,Alok
	Chandra Adhikari
	Menka Thakur
Issues Discussed	Findings
 Ancient Dargah "Champa dala" located in Sedata Village 	More than 400 year old Muslim Dargah "Champa dala" is located in the project area.
	Main festival during August- September during which more than 2000 pilgrim visit the dargah.
	It was observed that the dargah is very popular and hold strong religious importance amongst local communities.

Agenda	Stakeholder meeting for proposed 250 MW Wind Power Project in Kutch district, Gujarat	
Date of Meeting	22/03/2017	
Venue	Health Centre, Sedata	
List of participants	Health Staff	Arcadis official
	Daya Ben, Staff Nurse	Alok Chandra Adhikari
	Pramila Ben, Staff Nurse	
Issu	ies Discussed	Findings
Common	cilities at Sedata PHC diseases cy plan (Ambulance facility)	Consultation with the Auxiliary Nurse and Midwives (ANMs) was held to develop understanding of the disease profile which exists in the project villages. The discussion also tried to identify the special health concerns in these villages. The key findings of the discussion are as follows: The Sedata village has only one Community Health Centre. Basic facilities like generic medicines, ORS, weighing machine, BP machine, thermometer etc. are available in Health Centre.

The Health Assistant maintains sufficient stock of medicines and provides it to the villagers. The common diseases reported from the study area are urinary tract infection, cough, cold and malaria resulting from mosquito bites. In the emergency situation patients travel to Bhuj Town approx. 11 km away from the study area villages. Child birth facilities are also available in CMC. In an emergency situation Ambulance Service is available which take patients to District Hospital approx. 11 km away. RO water facilities are available in community health centre. Covered more than 25 villages.

Agenda	Stakeholder meeting for proposed 250 MW Wind Power Project in Kutch district, Gujarat	
Date of Meeting	25/03/2017	
Venue	Anganwadi, Naranpur village	
List of	ICDS Worker	Arcadis official
participants		
	Mrs. Mohan ba jee Soda Mrs. Yashwant ba Permar	Alok Chandra Adhikari
Issi	ues Discussed	Findings
	ture of ICDS centre vailable of ICDS centre	The enrolment rate in the AWC is upto 25 children.
		Children, in the Anganwadi centres normally sit on chair.
		AWCs do not have exclusive arrangements for drinking water and playground at their centre.
		Anganwadi has inadequate space to accommodate higher number of children.
Agenda	Agenda Stakeholder meeting for proposed 250 MW Wind Power Project in Kutch district, Gujarat	
Date of Meeting	24/03/2017	
Venue	Govt. Primary School, Reha Nana Village	
List of	School Teacher	Arcadis official
participants		
	R.J Vaghielu, Headmaster	Alok Chandra Adhikari

	D.B Rathod, Teacher Smt. B.L Soni. Teacher G.J Parmar, Teacher	
	Smt. S.M Chaudhury,	
	Teacher	
	Smt. U.N Mistri	
	ues Discussed	Findings
School • Present e	c infrastructure facilities of education status of School acility available of School	It was observed that the basic infrastructure facilities such as benches, electricity, RO drinking water facilities, fan and school building etc. are adequate and in good condition in the school. Adequate sanitation facilities (separate for male and female) was observed.
		Total 233 (Male: 112 and Female: 121) student come from the nearby villages. Drinking water supply from panchayat.

Agenda	Stakeholder meeting for proposed 250 MW Wind Power Project in Kutch district, Gujarat	
Date of Meeting	22/03/2017	
Venue	Community Consultation, Go	dpar Village
List of	Community	Arcadis official
participants		
	Kasan Ramji	Alok Chandra Adhikari
	Mauji Veghi	
	Walgi mavji Patel	
	Lal jee Vhimji	
Dhanji Arjan		
Issues Discussed		Findings
• Socio-Economic condition in the study area Villages, available infrastructural facilities and their utilization by the local community		Bore/dug well are the source for irrigation in this region.
Agricultural scenario and major Crops cultivated in study area villages (also the Irrigation Facility in study area villages)		Piped water supply system through reservoirs exists in all panchayat.
Health facilities in study area villages		In some of the villages drinking water is supplied to individual
Health facilities i	Trottady area villages	
	es in study area villages	households against charges Rs. 60-100 per month/ household.

- Average land holding Size in the study area villages
- Ongoing Govt. schemes and programmes

Sanitation facilities are inadequate in the villages and some of the locals resort to open defecation.

Health facility is not adequate in the village. Nearest Health Care facilities are also far away.

Alternate livelihood in this area is trading livestock.

Rain-fed as well as irrigational agriculture pattern is practiced in proposed project area.

There is no big industry nearby in the proposed project area.

Lack of Higher educational institutions in the study villages, hence girls do not continue their education.

Villages have a good number of cattle's but veterinary hospital and doctor is not within the reach.
Villagers of Godpad village have contributed to construct a community RO Water Filter with a 1000 lt. capacity above ground storage tank.

At present the RO water filter is maintained by the Panchayat. Rs. 100/ household / year is charged for maintenance of the RO water filter.

APPENDIX U

CSR Policy



CORPORATE SOCIAL RESPONSIBILITY (CSR) POLICY

We, at Ostro, believe that communities in which we operate, are one of the important stakeholders in our business. Through CSR activities, we intend to contribute to their socio-economic development and enhance their quality of life. This policy demonstrates Ostro's commitment to undertake CSR activities. Ostro will participate in CSR activities, directly or indirectly, in the following manner-

- Consult proactively with communities to identify issues and grievances and design CSR activities accordingly.
- Undertake projects with due care to activities and sensitivities of local people.
- Strategize and execute CSR activities with a clear focus on capacity building in areas of basic education, health care and drinking water.
- Monitor, review and evaluate CSR programs on a periodic basis

This policy is applicable to all project related activities of Ostro. Ostro is committed to deploy appropriate resources to fulfil its CSR obligation.

Ranjit Gupta

Chief Executive Officer

Date: May 2015

Ostro Energy: Corporate Social Responsibility Policy-Revision-0

APPENDIX V

ADB checklist for physical environment

Physical Environment Risk Zones	Natural Hazards and Climate Change Impacts	Score
Arid/Semi-Arid & desert environments	Low erratic rainfall of up to 500 mm rainfall per annum with periodic droughts and high rainfall variability. Low vegetative cover. Resilient ecosystems & complex pastoral and systems, but medium certainty that 10–20% of drylands degraded; 10-30% projected decrease in water availability in next 40 years; projected increase in drought duration and severity under climate change. Increased mobilization of sand dunes and other soils as vegetation cover declines; likely overall decrease in agricultural productivity, with rain-fed agriculture yield reduced by 30% or more by 2020. Earthquakes and other geophysical hazards may also occur in these environments.	1 or 2
Humid and sub- humid plains, foothills and hill country	More than 500 mm precipitation/yr. Resilient ecosystems & complex human pastoral and cropping systems. 10-30% projected decrease in water availability in next 40 years; projected increase in droughts, heatwaves and floods; increased erosion of loess-mantled landscapes by wind and water, increased gully erosion; landslides likely on steeper slopes. Likely overall decrease in agricultural productivity compromised food production from variability, with rain-fed agriculture yield reduced by 30% or more by 2020. Increased incidence of forest and agriculture-based insect infestations. Earthquakes and other geophysical hazards may also occur in these environments.	1
River valleys/deltas and estuaries and other low-lying coastal areas	River basins, deltas and estuaries in low-lying areas are vulnerable to riverine floods, storm surges associated with tropical cyclones/typhoons and sea level rise; natural (and human-induced) subsidence resulting from sediment compaction and ground water extraction; liquefaction of soft sediments as result of earthquake ground shaking. Tsunami possible/likely on some coasts. Lowland agri-business and subsistence farming in these regions at significant risk.	2
Small islands	Small islands generally have land areas of less than 10,000km* in area, though Papua New Guinea and Timor with much larger land areas are commonly included in lists of small island developing states. Low-lying islands are especially vulnerable to storm surge, tsunami and sea-level rise and, frequently, coastal erosion, with coral reefs threatened by ocean warming in some areas. Sea level rise is likely to threaten the limited ground water resources. High islands often experience high rainfall intensities, frequent landslides and tectonic environments in which landslides and earthquakes are not uncommon with (occasional) volcanic eruptions. Small islands may have low adaptive capacity and high adaptation costs relative to GDP.	3

Physical Environment Risk Zones	Natural Hazards and Climate Change Impacts	Score
Mountain ecosystems	Accelerated glacial melting, rockfalls/landslides and glacial lake outburst floods, leading to increased debris flows, river bank erosion and floods and more extensive outwash plains and, possibly, more frequent wind erosion in intermontane valleys. Enhanced snow melt and fluctuating stream flows may produce seasonal floods and droughts. Melting of permafrost in some environments. Faunal and floral species migration, Earthquakes, landslides and other geophysical hazards may also occur in these environments.	3
Volcanic environments	Recently active volcanoes (erupted in last 10,000 years – see www.volcano.si.edu). Often fertile soils with intensive agriculture and landslides on steep slopes. Subject to earthquakes and volcanic eruptions including pyroclastic flows and mudflows/lahars and/or gas emissions and occasionally widespread ashfall.	2

Risk by Sector

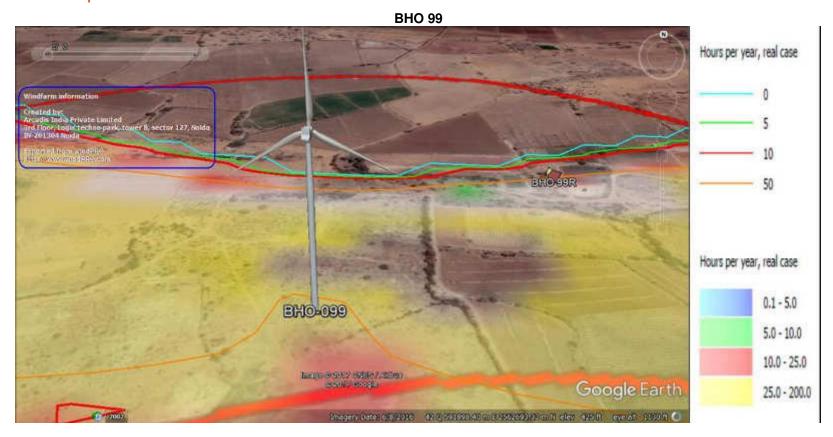
PROJECT SECTORS	RISKS (Selected examples only. If the project is likely to be affected by any of the risks listed below, use the score suggested. If it will not be affected, a lower score may be used at your discretion.)	Estimated. RISK LEVEL
1. Agriculture & Natural Resources	Impacts on crop production or yield resulting from drought, hail, floods, tropical cyclone/depression winds and rains, storms, heatwaves, wildfires, insect infestations, widespread volcanic ash fall.	
	Possible changes in diversity resulting from changing precipitation and/or temperature regimes Impacts on water availability for agricultural sector from El Niño, Indian Ocean Dipole and similar hemispheric weather influences Impacts from glacial melt flooding, or estuarine or delta-based flooding from storm surges or tsunami	
	Impacts from salinization of soils by drought, storm surge or tsunami Impacts of changes to ocean currents, and on physical & chemical regime of oceans	Very High
	Impacts on land-sea interactions affecting sensitive habitats of marine species through changing water temperatures, increased incidents of marine pollution, greater incidents of coastal erosion, or incidents of algae blooms from warming of ocean areas Impacts on fisheries as a result of changes in migration patterns, fish size and availability	(3)
2. Water Supply, and other municipal infrastructure	Decrease in freshwater availability or adverse effects on quality due to drought or heatwaves, algal blooms, salinization by storm surge or tsunami, ground water rise or sea level rise. Contamination of or interruption to water supply (or electricity) resulting from flood, storm surge, landslide, tsunami or earthquake, Adverse effects on treatment plants from volcanic ash fall.	
and services	Accelerated glacier melt likely to cause increase in the number and severity of glacial melt-related floods, slope and river bank destabilisation and a decrease in river flows as glaciers recede	

PROJECT SECTORS	RISKS (Selected examples only. If the project is likely to be affected by any of the risks listed below, use the score suggested. If it will not be affected, a lower score may be used at your discretion.)	Estimated. RISK LEVE
3. Education	School infrastructure is used for emergency shelter in most countries and should conform to the highest building codes and be sited as safely as possible with respect to all risks.	
4. Health and Social Protection	Health infrastructure should conform to the highest possible building codes and be sited as safely as possible with respect to all risks. Morbidity/mortality (e.g., fractures or severe trauma, burns, malnutrition, diarrhoeal, cardio-respiratory, or infectious diseases) from earthquakes, tsunami, heatwaves, floods, storms, cyclones, fires and droughts.	
	Changes in the distribution, frequency & burden of some vector-borne and water-borne diseases	
5. Transport & Communications	Damage to transport infrastructure due to earthquakes, volcanic eruption, landslides, sea-level rise, storm surge, or tsunami	High (2)
	Port operations affected by sea-level rise, storms, storm surge, tsunami, wave action, strong winds, or floods,	
	Overhead lines exposed to wind, ground shaking and liquefaction particularly in coastal areas, high country and on soft soils.	
6. Energy	Rainfall variability, floods, droughts, landslides, earthquakes, or glacial meltwater floods impacting surface water flow and/or downstream water recharge	
	Risk to oil and gas sector infrastructure in coastal locations from tropical cyclone winds and storm surge, floods, tsunami, earthquakes, or sea level rise	
	Overhead transmission and distribution lines exposed to wind, ground shaking and liquefaction particularly in coastal areas, high country and on soft soils. Pipelines subject to ground shaking, liquefaction, subsidence, erosion.	High (2)
. Multi-sector	Subject to multiple risks similar to examples given throughout this table	
3. Housing Finance & Micro-finance	Housing infrastructure and small businesses are vulnerable to all risks listed in Table 1 or elsewhere in this Appendix (may require higher Risk Level for specific projects).	1,
	All property can be affected by a range of the risks listed in this table	Medium (1)
). Industry & Trade	Diverse sector investment subject to risks and market interruptions (e.g. procurement delays, merchandise transfer disruption)	
0. Technical, vocational training & skills development	Limited direct exposure to the types of risks discussed here	Negligible Risk (0)

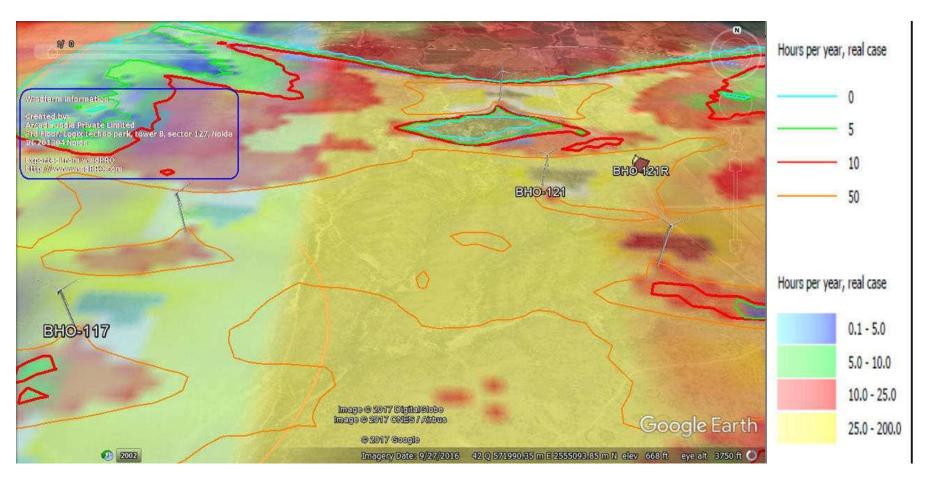
PROJECT SECTORS	RISKS (Selected examples only. If the project is likely to be affected by any of the risks listed below, use the score suggested. If it will not be affected, a lower score may be used at your discretion.)	Estimated. RISK LEVEL
11. Finance		
12. Public Sector Management		

APPENDIX X

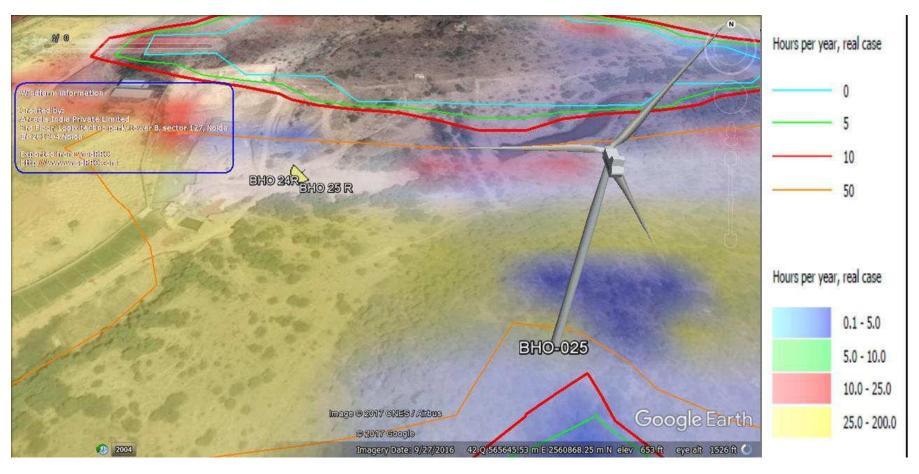
Shadow flicker map



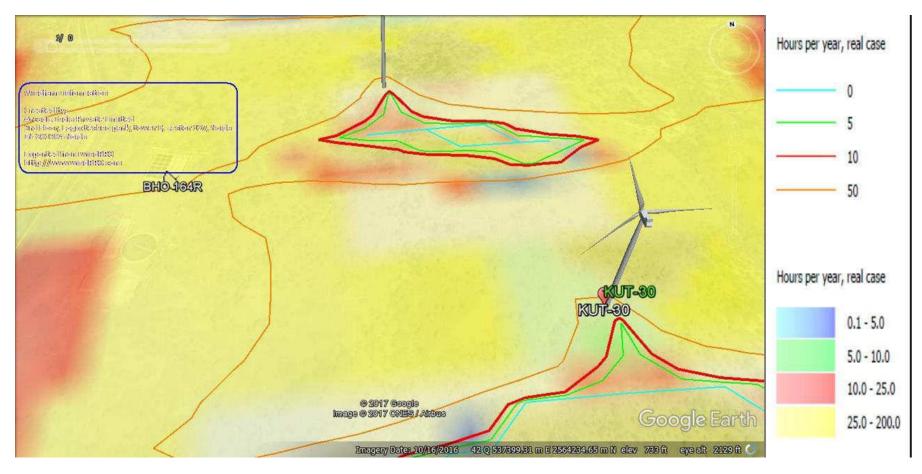
BHO-121 and BHO117



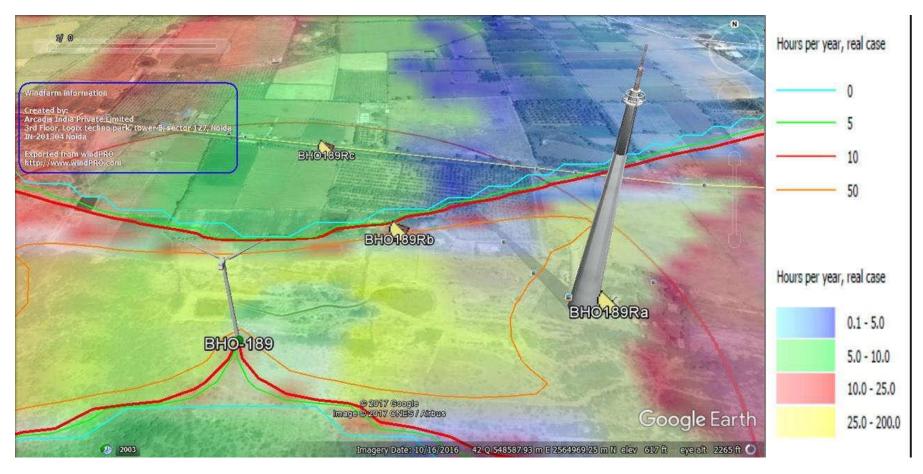
BHO-25



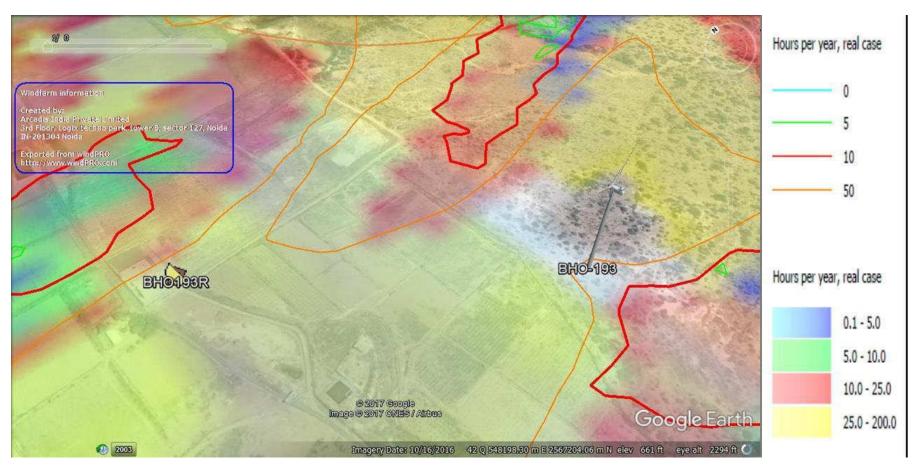
KUT 30



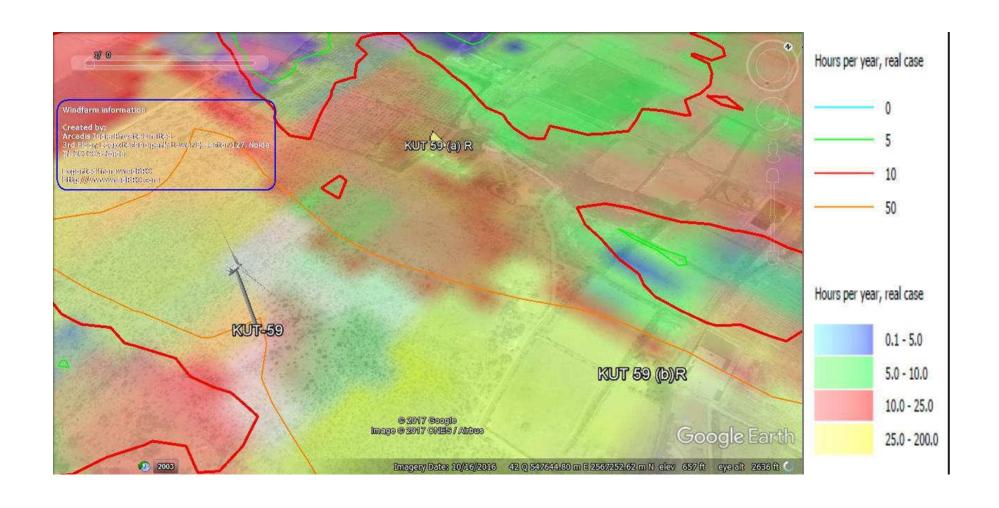
BHO 189



BHO-193



KUT 59



APPENDIX Y

Health and Safety plan

Labour camp assessment checklist - Construction phase

Project	Duration of work of Contractor
Location	Total Number of Labourers residing in the Labour Camp
Date of inspection	Type of Accommodation and Number of dwelling units
Name of Contractor/s	Due Date of Inspection
Nature of Work	

Checklist Questions

SN.	Standards for Workers Accommodation	Satisfaction Levels	Remar	ks/ Gaps Observed	Expected Date of Completion of identified gaps
		High	Medium	Low	
A	Labour Camp – General Requirements				
1.	Is the location of the labour camp designed to avoid flooding or other natural hazards?				
2.	Is the labour camp location at significant				

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	distance from the nearby residential locality?			
3.	Is the project site adequately drained?			
4.	Is the labour camp designed as per approved plan ?			
5.	Is the building material used for the construction is safe and non-hazardous?			
6.	Does labour camp provide sufficient thermal projection			
7.	Does labour camps are having proper access roads?			
В	Sanitation Facilities			
8.	Does the labour camp have adequate sanitary and toilet facilities? If yes, are the number of toilets sufficient to suffice the number of labours.			
9.	Is the toilet facility provided with adequate supply of water is			

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		available?			
	10.	Is the overall hygiene and cleanliness satisfactory?			
	C.	Water, Wastewater and Waste Requirements			
	11.	Are potable drinking water facilities available and provided to the labour camps? If yes, is it adequate for meeting domestic needs like bathing, washing and sanitation purpose?			
	12.	Is the drinking water storage covered to prevent water stored therein from becoming polluted or contaminated?			
	13.	Is adequate storage capacity available to store water for domestic purposes (storage of 48 hours reserve supply is adequate)?			
	14.	Are their separate arrangements for sanitation and bathing facilities for men and			

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	women (in case of engagement of women workforce)?			
15.	Are the sanitation facilities maintained in good condition?			
16.	Does the site have a proper drainage system?			
17.	Are all streams of wastewater generated from the camps leading to treatment and disposal facility (septic tanks and soak pits etc.)?			
18.	Do the labour camps have adequate number of dustbins for waste collection and disposal?			
19.	Are wastewater, sewage, food and any other waste material adequately discharged and disposed in compliance with local standards and without causing any significant impacts on camp residents, the environment or			

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	surrounding communities?				
D.	Living Conditions				
20.	Do the worker camps have adequate spacing inside to accommodate allotted number of individuals?				
21.	Are the labor camps properly illuminated?				
22.	Is labour camp designed considering safety from rain ?				
23.	Are the labour camps equipped to provide proper thermal comfort during winter seasons?				
24.	Are the labour camps provided with proper facility to keep valuables such as cloak room etc.?				
25.	Are the labor camps properly ventilated?				
26.	Have separate area for cooking being constructed/allocated for workers and proper hygienic conditions being maintained?				

27.	Have the workers been provided or allocated with proper sleeping arrangement like cots, mattresses, blankets etc.?			
E.	Health and Safety			
28.	Is the cooking facility separate from the living quarters to avoid any fire hazards and is the LPG cylinders (if used) stored in well-ventilated area?			
29.	Is the fire extinguisher been provided at the camps (If necessary)?			
30.	Are there adequate first aid facilities present at the camp and is it readily accessible at all times?			
31.	Are emergency contact numbers displayed prominently at the labour camp. The emergency contacts should include at least one number of principle employer?			

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32.	Is a housekeeping register being maintained for the camps?			
33.	Are the workers sensitized on communicable diseases?			
34.	General House Keeping and staff?			
35.	Vector Born/ communicable Disease control?			
36.	Are the workers provided with adequate personal protective equipments?			
F	Community Related			
37.	Is the nearby community anyway getting affected by the labour camps and its activities?			
38.	What are the types of such activities?			
39.	Are there any sources through which there is a possibility of a disease spreading to the nearby			

	community because of the unhygienic conditions at the labour camps? Has there been any? If yes, please specify and provide reasons.			
40.	Is the community getting affected due to the operation of the construction machinery?			

APPENDIX Z

Incident and Accident Reporting

INCIDENT REPORTING STANDARD

The purpose of this Standard is to guide on:

- How the incidents should be categorised as Catastrophic (C), Major (M), Serious (S), and Light (L).
- At what level and within what timeframe different categories of incidents has to be reported at Ostro Head office.
- How to record information in incident report format in a consistent and comparable manner.
- This standard is applicable for Loss time incidents, non-loss time incident
 - **Lost-time injuries (LTI)** those occurrences that resulted in a fatality, permanent disability or time lost from work of one day or more.
 - No lost-time injuries those occurrences which were not lost-time injuries and for which first aid and/or medical treatment was administered.
- First communication of any incident to concerned people at Ostro Head office should happen at the earliest through a phone call, sms or through an email. Concerned people at Ostro HO includes, CEO, COO, Project Head, and ESG.
- After communicating the incident occurrence, site head has to gather more details and make Incident report in Ostro's Incident Report Format within 24 hours from the date of incident.
- Before making the incident report, the site head must meet the injured person/s (if any) due to the incident and get details of their condition and medical treatment.
- Incident report must have at least 3 photographs related to incident.

INCIDENT CATEGORIES AND REPORTING

	Catastrophic (C)	Major (M)	Serious (S)	Light (L)
Loss	 Fatality Loss of Laptop Asset Damage > crore 	 Loss time Incident > 1 month Permanent disability to a person Asset Damage > 50 lakhs 	 Loss time Incident > 1 day Asset Damage > 10 lakhs 	 LTI requiring worker to stop work and be given first aid but can return to work next day. Asset Damage < 10 lakhs
Reporting by Site Head to	CEO, COO, ESG, Head of Projects Head of O&M, Admin Head	COO ESG Head of Projects Head of O&M Admin Head	Head of O&M Head of Projects ESG Admin	ESG Head of Projects Head of O&M
Time limit for first intimation	At the earliest	Within 1 hour	Within 3 hours	Within 4 hours
Time for incident investigation and submitting the Incident Report	Within 15 days from the date of incident	Within 7 days from the date of incident	Within 7 days from the date of incident	Within 3 days from the date of incident

Person/s	CEO	COO	Head of O&M	Cita Llaad
Responsible for			Head of Projects	Site Head
Investigation &			•	
Closure				

Immediate Actions to be taken in case of all Categories of Incident (C, M, S, L)

- In case of fatality, first inform all concerned in Ostro HO. Admin Head is responsible to inform the family of affected person.
- In case of road accidents and other accidents at site, give first aid to the injured person/s, go to nearest hospital if required and take medication as recommended by doctor. Inform all concerned in Ostro HO.
- In case of fire/explosion, call nearest fire station.
- In case of civil disturbance and serious situations call local police and inform Ostro Admin Head and other concerned in HO.

Notes for making Incident Report

- The Incident report should have a structured narrative with details mentioned below:
- When and Where did the incident occur, date, time and place of incident occurrence.
- What was the worker(s)/employee doing at the time just before the incident (for example, driving, walking, standing, lifting etc)
- What happened unexpectedly (for example, brakes failed, animal suddenly came in front of vehicle, slipped on wet floor, scaffolding collapsed, etc)?
- How exactly the worker got injured, Nature of injury, Bodily location of injury.

INCIDENT REPORT FORMAT

INCIDENT REPORT FORMAT

Highlight the category of Incident in yellow

Project:	Catastrophic	Major	Serious	Light	LTI: (Yes/No)
Incident No:	1.Fatality 2.Loss of Laptop	Loss time Incident > 1 month Permanent disability to a	 Loss time Incident ≥ 1 day 	LTI requiring worker to stop work and be given first aid but	Loss Time: (in days)
7.1.500.000-0.000000	3. Asset Damage > 1	person	2. Asset Damage > 10	can return to work next day.	Loss: (Person/Asset)
DATE:	crore	3. Asset Damage > 50 lakhs	lakhs	2. Asset Damage < 10 lakhs	Loss. (Ferson/Asset)
Asset Damage:					
What immediate action wa	s taken?				
What immediate action was Name of Injured person	1617	What was the root cause of the In	cident/Accident?		
Name of Injured person Age	1617	What was the root cause of the In	cident/Accident?		
Name of Injured person	1617	What was the root cause of the In	cident/Accident?		
Name of Injured person Age	1617	What was the root cause of the In	cident/Accident?		
Name of Injured person Age Address:		What was the root cause of the In What preventive actions are reco		rence of the Incident/Accident?	
Name of Injured person Age Address: Contact Number Working				rence of the Incident/Accident?	

OSTRO INCIDENT REPORTING STANDARD-JUNE 2016-V1



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