

# **Semi-Annual Social Safeguard Monitoring Report**

**Loan Number : 2787-IND & 2788 -IND**

**Reporting Period : October, 2018 to March, 2019**

## **National Grid Improvement Project**

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**Implementing Agency : POWERGRID**

**Executing Agency : POWERGRID**

**Date : 27.05.2019**

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## ABBREVIATIONS

ADB	–	Asian Development Bank
APs	–	Affected Persons
CEA	–	Central Electricity Authority
CTU	–	Central Transmission Utility
EA	–	Executing Agency
EIA	–	Environment Impact Assessment
ESPP	–	Environment and Social Policy & Procedures
ESMD	–	Environment & Social Management Department
EMF	–	Electro Magnetic Fields
EMP	–	Environmental Management Plan
GIS	–	Gas Insulated Switchgear
GO	–	Government Order
GoI	–	Government of India
GRM	–	Grievances Redressal Mechanism
GRC	–	Grievance Redressal Committee
HVDC	–	High Voltage Direct Current
IEE	–	Initial Environmental Examination
IPP	–	Independent Power Producer
km	–	Kilometers
LTOA	–	Long-Term Open Access
MoEF	–	Ministry of Environment and Forests
PAPs	–	Project Affected Persons
POWERGRID	–	Power Grid Corporation of India Ltd.
PMU	–	Project Management Unit
RoW	–	Right of Way
RAP	–	Rehabilitation Action Plan
S/s	–	Substation
WR	–	Western Region
NR	–	Northern Region

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## SECTION 1: INTRODUCTION

Power Grid Corporation of India Ltd. (POWERGRID), the Central Transmission Utility (CTU) of the country, is engaged in power transmission with the mandate for planning, co-ordination, supervision and control over complete Inter-State transmission system. It has been contributing significantly towards development of Indian power sector by undertaking coordinated development of power transmission network along with effective and transparent operation of regional grids and through continuous innovations in technical & managerial fields.

POWERGRID has received a nos. of Long-Term Open Access (LTOA) applications from Independent Power Producer (IPP) generation projects coming up in Chhattisgarh for transfer of power to different target regions viz. Western and Northern region. It is estimated that IPP generation projects with long-term power transfer requirement of about 15000-16000 MW is coming up in Raigarh (Kotra), Champa, Raigarh (Tamnar) and Raipur generation complex in Chhattisgarh progressively in next 3-4 years. Out of the 15000-16000 MW quantum of power transfer requirement, about 5000 MW power is indicated for transfer to Northern region as the target region and balance power is to be transferred to the Western region. For evacuation and transfer of power from these generation projects, 765/400kV High Capacity Pooling stations viz. at Raigarh (Kotra), Raigarh (Tamnar), Raipur and Champa is proposed. However, considering the quantum of power transfer requirement (about 5000 MW) to Northern region, it is proposed that a new high capacity transmission corridor may be developed to effect above transfer.

Based on the discussion with IPPs and Central Electricity Authority (CEA) as well in the 29<sup>th</sup> & 30<sup>th</sup> Standing Committee meeting on Power System planning in Western region/11<sup>th</sup> meeting of WR constituents regarding LTOA application in WR, transmission system for above generation projects in Chhattisgarh with power transfer requirement to target regions was agreed. Looking at the transmission system requirement for transfer of power to Northern/Western region from generation projects coming up in Chhattisgarh, a comprehensive transmission scheme on system strengthening in Western- Northern inter-regional HVDC transmission corridor is proposed.

Presently, North-West inter-regional transmission corridors are being developed with AC technology. However, considering the long distance as well quantum of power transfer requirement to NR from IPP generation projects in Chhattisgarh, it is proposed that power from IPP generation projects in Chhattisgarh can be transferred over HVDC system. Development of such HVDC transmission corridors shall facilitate in establishing transmission corridors with hybrid technology. This shall also facilitate in meeting controlled power flow requirement, flexibility of operation as well as maintaining system parameters within limits through its control mechanism. For this  $\pm 800$ kV, 3000MW HVDC bipole between Champa Pooling Station and Kurukshetra, a major load center in NR is proposed. For power transfer from Kurukshetra onwards, a 400kV transmission corridor towards Nakodar/ Jallandhar in Punjab is proposed. It is also proposed that provision should be kept to upgrade above HVDC Bipole to 6000MW at a later date with increased power transfer requirement to Northern region.

To meet the funding requirement for the proposed project, Asian Development Bank (ADB) has accepted POWERGRID's proposal to finance a loan of USD 750 million (USD 500 million as Sovereign & USD 250 million as Non-Sovereign) for implementation of HVDC Sub- Station at Champa & Kurukshetra and some package of transmission line. The funding for the remaining part will be met from POWERGRID's

own Internal Resources (IR). The loan no.2787 & 2788 was signed on 30<sup>th</sup> March, 2012 and became effective from 22<sup>nd</sup> Oct., 2012. The loan closing date is extended up to 31<sup>st</sup> December, 2019.

However, in order to utilize USD 90 million saving from other loans, scope of 2 other ADB funded projects i.e. Establishment of +800kV, 6000MW HVDC system between the Western (Raigarh) and Southern (Pugalur) Regions & Establishment of Pugalur - Trichur 2000 MW VSC Based HVDC System which are already covered under ADB Loan No. 3365-IND are also included in the subject loan.

## 1.1 SCOPE OF PROJECT

The National Grid Improvement Project covered under Loan No. 2787-IND and 2788 - IND involves following projects:

1. Establishment of HVDC Inter-regional transmission system between the Northern (Haryana) and Western (Chhattisgarh) regions. The detail scope of the project covered under above loans include following transmission facilities:
  - i. Construction of  $\pm 800$ kV HVDC Bipole between Champa (in Chhattisgarh) and Kurukshetra (in Haryana).
  - ii. Establishment of 800kV HVDC terminals at Champa and Kurukshetra
2. Inter-Regional System strengthening Scheme for WR and NR (Part-B)\*
  - i. Orai-Aligarh 765 kV D/c line
  - ii. Orai-Orai (UPPTCL) 400kV D/c (Quad) line
  - iii. LILO of Agra-Meerut 765 kV S/c line at Aligarh substation
  - iv. LILO of Kanpur- Jhatikara 765 kV S/c line at Aligarh substation.
3. Establishment of +800kV, 6000MW HVDC system between the Western (Raigarh) and Southern (Pugalur) Regions\*\*
  - i. Establishment of Raigarh  $\pm 800$ kV HVDC Station with 6000 MW HVDC terminals.
  - ii. Establishment of Pugalur  $\pm 800$ kV HVDC Station with 6000 MW HVDC terminals.
4. Establishment of Pugalur - Trichur 2000 MW VSC Based HVDC System\*\*
  - i.  $\pm 320$ kV, 2000 MW VSC based HVDC terminal at Pugalur. (HVDC Station would have GIS for 400kV part and AIS for HVDC part).
  - ii.  $\pm 320$ kV, 2000 MW VSC based HVDC terminal at North Trichur. (HVDC Station would have GIS for 400kV part and AIS for HVDC part).
  - iii. Establishment of VSC based  $\pm 320$ kV, 2000 MW HVDC Transmission System between Pugalur and North Trichur (Kerala). (part of this link, in the Kerala portion, will implemented as underground cable where implementation as overhead transmission line is difficult because of RoW issues).
  - iv. +320kV Underground cable - 28 km (4 x 28 km circuit km)

\* Associated substations facilities are not covered under the funding scope.

\*\* Also covered under ADB Loan-3365-IND & 3375-IND for which separate E & S monitoring reports are being submitted semi-annually for period January -June & July – December to ADB and such reports are disclosed on website of both ADB & POWERGRID. Hence, E & S details of these projects are not included in the instant report.

## 1.2 PROJECT OBJECTIVES

The objective of the project is to provide transmission arrangement so as to transfer power from future IPP generation projects in the State of Chhattisgarh to Northern and Western region with reliability and security.

The additional components under IRSSS (Part-B) aim to facilitate the efficient and reliable power transfer between NR and WR.

## 1.2 OVERALL PROJECT PROGRESS, AGREED MILESTONES & COMPLETION SCHEDULES

Name of project	Project Details	Progress as on March 2019	Completion Schedule
Establishment of HVDC inter-Regional Transmission System between the Northern (Haryana) and Western (Chhattisgarh) Regions	<b>Transmission Line:</b> Construction of +800kV HVDC Bipole between Champa (in Chhattisgarh) and Kurukshetra (in Haryana) <b>Substation:</b> Establishment of 800kV HVDC terminals at Champa and Kurukshetra	Pole-I commissioned in March, 2017 and 2nd pole Pole-II commissioned in September, 2017	June 2017 (extended)
Inter-Regional System Strengthening Scheme for WR and NR (Part-B)	<b>Transmission Line:</b> 1. Orai-Aligarh 765 kV D/c 2. Orai-Orai(UPPTCL) 400 kV 3. LILO of Agra-Meerut 765 kV S/c line at Aligarh substation 4. LILO of Kanpur- Jhatikara 765 kV S/c line at Aligarh substation.	All lines commissioned by April, 2018	April 2018

## SECTION 2: COMPLIANCE STATUS WITH MAJOR LOAN COVENANTS

POWERGRID has complied with various social safeguards as agreed in the loan covenants. The point wise compliance status is presented in the table below;

**Table-1: Compliance Status**

Project Specific Covenants	Reference	Status of Compliance
The Borrower shall ensure, or cause to be ensured, that all land and all rights-of-way required for the Project are made available to the works contractor in accordance with the schedule agreed under the related works contract and all land acquisition and resettlement activities are implemented in compliance with (a) all applicable laws and regulations of the Guarantor and the relevant States relating to land acquisition and involuntary resettlement; (b) ESPP; (c) the Involuntary Resettlement Safeguards; and (d) all measures and requirements set forth in the CPTD and the RP, and any corrective or preventative actions set forth in the Safeguards Monitoring Report.	LA, Sch. 5, para. 14	Complied/Being complied.

Without limiting the application of the Involuntary Resettlement Safeguards, the CPTD or the RP, the Borrower shall ensure that no physical or economic displacement takes place in connection with the Project until: (a) compensation and other entitlements have been provided to affected people in accordance with the CPTD or the RP; and (b) a comprehensive income and livelihood restoration program has been established in accordance with the RP.	LA, Sch. 5, para. 15	Complied/Being complied.
In the event irrigation supplies are disrupted and affected farmers experience losses, the Borrower shall ensure that a provision is made for independent valuation of the losses and timely compensation in respect thereof.	LA, Sch. 5, para. 16	Not applicable as no such instances observed/reported till date.
The Borrower shall make available necessary budgetary and human resources to fully implement the EMP, the CPTD and the RP.	LA, Sch. 5, para. 17	Complied.
The Borrower shall ensure that all bidding documents and contracts for works contain provisions that require contractors to: (a) comply with the measures relevant to the contractor set forth in the IEE, the EMP, the CPTD and the RP (to the extent they concern impacts on affected people during Construction), and any corrective or preventative actions set forth in the Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; (c) provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the CPTD and the RP; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) Reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	LA, Sch. 5, para. 18	Complied
The Borrower shall do the following: (a) submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the CPTD and the RP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan;	LA, Sch. 5, para. 19	Being complied.  No such issues came across till date.

(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP, the CPTD and the RP promptly after becoming aware of the breach; and (d) in the event unexpected significant safeguard impacts are identified, promptly engage qualified and experienced external expert or agency under terms of reference intimated to ADB, to verify information produced through the Project monitoring process, and facilitate the carrying out of any verification activities by such external experts.		No such issues came across till date.  No such issues came across till date.
The Borrower shall ensure that subsequent to award of works contract, no works are commenced by the contractor unless the applicable provisions of the IEE, the EMP, the CPTD and the RP, as approved by ADB, have been complied with.	LA, Sch. 5, para. 20	Complied.
In relation to the Project, the Borrower shall cause the contractors to undertake detailed survey of the affected persons during transmission line alignment finalization. The Borrower shall prepare CPTD which meets ADB's requirements, and update it based upon the detailed design information during the survey carried out by work contractors. The Borrower shall submit to ADB for approval the revised CPTD progressively during the implementation of the related works.	LA, Sch. 5, para. 21	Complied
Any changes to the location, land alignment, or environment impacts on account of detailed designs of the Project shall be subject to prior approval by ADB before commencement of works for transmission lines under the Project.	LA, Sch. 5, para. 22	Not applicable as no such deviation reported so far.
In the event of any significant or related impacts on indigenous peoples, the Borrower shall prepare and implement an indigenous peoples plan in accordance with the applicable laws and regulations of the Guarantor and the relevant States, and the Indigenous Peoples Safeguards.	LA, Sch. 5, para. 23	Not applicable as no Indigenous people involved/ impacted so far.

### **SECTION: 3 COMPLIANCE STATUS WITH SOCIAL MANAGEMENT & MONITORING PLAN AS AGREED WITH ADB**

A summary of the social mitigation measures & their monitoring vis-a-vis compliance by POWRGRID is given in **Table 2**.

Details of land secured/acquired for both terminals are mentioned below-

**A) Champa Substation:** In the RP, land requirement for HVDC station was mentioned as 116.7 acres as per preliminary assessment of 2011. However, after detailed assessment, the actual land details for HVDC Terminal (under funding) is 114.7 acres out of total 262.27 acres land of Champa Substation.

It is to inform you that the above mentioned land details is for entire Champa substation comprising of 800 kV HVDC portion (114.7 acres), 20 nos. of 765 kV bays (83.2 acres), 47 nos. of 400 kV bays including future bays (64.35 acres) and also colony area.



Accordingly, the details of affected PAPs, land compensation and R&R benefits have been given for the entire substation area and not specifically for the HVDC terminal.

As explained above, for the total land requirement of Champa Substation (262.27 acres), land comprising of 158 acre govt. and 104.27 acre private land was secured. Accordingly, land was acquired/ allotted for the entire substation and not separately for HVDC terminal.

### **Govt. Land (158 acre)**

Govt. order for transfer of land was issued on 30.09.11. DC issued order for possession of land on 23.11.11 and agreement signed on 25.11.11.

### **Private land (104.27 acre)**

The private land was acquired by invoking Land Acquisition Act, 1894. Sec. - 4 & Sec.-6 were issued on 25.08.11 and 25.11.11 respectively. Public hearing under Sec. - 9 held on 03.01.12 and 06.01.12. Award under Sec.-11 issued on 30.11.12. Possession of land was taken by POWERGRID on 15.04.13.

At the very initial stage when acquisition was not initiated, ADB through consultant carried out social assessment for identified area of Champa substation and prepared RP which was approved in 2011 (Copy available on POWERGRID's and ADB's website). As per R&R policy of Chhattisgarh and negotiation with land owners, compensation package of Rs. 6 lakhs per acre for barren land, Rs. 8 lakhs per acre for un-irrigated land and Rs. 10 lakhs per acre for irrigated land, was decided. The finalized compensation was all inclusive and had component of R&R included within the final price. As separate RAP was not required, same was not prepared by POWERGRID. However, as per POWERGRID's policy, the social assessment was awarded to third party (M/s Mittsoo Solution Pvt. Ltd., New Delhi) at the time of publication of Section-4 notification under LA Act, 1894.

Public consultation was conducted with villagers to identify the Community Development Works (CDW). After detailed discussion, POWERGRID and affected persons mutually agreed upon carrying out following CDWs:

<b>Sl.</b>	<b>Activity</b>	<b>Status</b>
1.	4 no. Solar Semi High lamp at village Taga & Chorbatti	Completed.
2.	Community Center at village Taga	Completed.
3.	Construction of bridge over Nallah/drain at village Taga	Completed.
4.	Elevated resting places for Cows/Buffaloes at village Taga	Completed.
5.	Development of area around Community Center and boundary wall at village Taga	Completed.
6.	Retaining wall for drain at village Taga	Work awarded but could not be taken up because of continuous resistance from villagers against restricting the flow of channel which will restrict irrigation in their farm lands
7.	Bus Stop at village Chorbatti	Completed.
8.	Development of playground and children park at village Chorbatti	Completed.

Further, many other CSR activities have been taken up in the affected villages. The details of which are as follow-

1. Construction/repair of roads in village Jayjaypur, District Janjgir Champa - 20 lakhs
2. Health check up camp organised in village Taga. Total 186 villagers participated in the program. The health check up included blood pressure monitoring, eye check up, ECG, general physician consultation etc.
3. Providing Furnitures in Central school at village Janjgir- 52.91 lakhs.
4. Providing water supply pipeline by using 5 HP Pump and GI pipe at village Taga- 49.93 Lakhs

**B) Kurukshetra Substation:** Since RP was prepared and submitted in Jun'11, the data and figures given were based on preliminary assessment. The land requirement as per preliminary assessment was 225 acres, out of which 75 acres was private land. After fixation of general arrangement/ layout of Air Insulated Substation (AIS) substation, land area requirement reduced and proposal for land acquisition of 173 acres was submitted to State Govt.

State Govt. asked Haryana Vidyut Prasaran Nigam Limited (HVPNL) for recommendation. Joint review has taken place with POWERGRID and HVPNL to reduce the land area further and it was decided then to shift the 400 kV AIS to Gas Insulated Switchyard (GIS), resulting in reduced land area with consent from HVPNL to bear the additional cost for it (Copy of communication enclosed for ready reference as **Annex-1**).

On the recommendation from HVPNL, POWERGRID opted for GIS 400 kV switchyard, reducing required land to 116 acres. The reduction in land requirement enabled POWERGRID to establish its substation totally on Govt./ Panchayat land. Possession for this land was taken on 17.10.12. Since the land secured was govt. owned, encroachment free land, there are no PAPs involved and no RAP is required. However, a public consultation was done with villagers to identify the Community Development works. The following community development works were identified by villagers:

- ✓ Construction of interlocking path within the village
- ✓ Construction of Shamshan shed, Bramda shamshan & B.Wall.
- ✓ Construction of interlocking paver main phirni and Nala.
- ✓ Construction of Community Centre.
- ✓ Interlocking pavement in Rajiv Gandhi Sewa Kendra.
- ✓ Construction of 5 nos. Toilets.
- ✓ Construction of Bramda in Harijan Choupal.

After the detailed discussion, POWERGRID has agreed to taken up the above CDW activities at an estimated budget of Rs. 92.34 lakhs. The status of work is as follows:

Sl.	Activity	Status
1	Construction of interlocking path within the village	All works Completed
2	Construction of Shamshan shed, boundrywall and bramda	
3	Construction of ILPB main firni, construction of Nalla	
4	Construction of Community Center	
5	Construction of ILPB Pavement in Rajiv Gandhi Sewa Kendra	
6	Construction of 5 no. Toilets	
7	Construction of Bramda in Harijan Choupal	

Some photographs of Community Development Works and Health Checkup Camp undertaken in and around proposed substations area are placed in **Plate- 1 to 3**.

## Compensation for Acquired Lands

POWERGRID always tries to pay compensation at prevailing market prices/ replacement value. In instant case, only Champa substation has private land partially. In absence of suitable govt. land for establishment of Champa substation, Site Selection Committee consented on a partially private land. POWERGRID approached DC for calculation of land cost at market price.

As per “Adarsh Punarvas Neeti”, 2007 of Govt. of Chhattisgarh, land compensation is decided according to type/pattern of land. The cost of land to be purchased for above substation, as per policy, worked out to be Rs. 6 lakhs per acre for barren land, Rs. 8 lakhs per acre for un-irrigated land and Rs. 10 lakhs per acre for irrigated land. In accordance to that, POWERGRID was asked to pay land compensation at 10 lakhs per acre vide award of land published under Sec.11 of Land acquisition Act 1894. As per the guidelines to calculate market value under LA act, 1894, the land compensation rate including 30% solatium and interest, were ranging from Rs. 3,90,515/- per acre to Rs. 4,86,081/- per acre depending on pattern of land. On the basis of this, total land compensation was Rs.3,64,73,649/- for village Taga and Rs. 35,41,978/- for Village Chorbatti. POWERGRID has paid the land compensation in line with “Adarsh Punarvas Neeti”, 2007 at a land rate of 10 lakhs per acre, amounting to total compensation of Rs. 1229 lakhs.

During subsequent negotiation meetings, POWERGRID agreed to pay an additional amount of Rs. 10 lakhs per acre (4 lakhs per acre as additional land compensation, 3 lakhs per acre in lieu of employment and 3 lakhs per acre in form of Rehabilitation Assistance) to landowners, amounting to Rs. 1043 lakhs. Hence, a total of 20 lakhs per acre, which includes components of land compensation, compensation towards employment and R&R, has been paid to landowners in final settlement.

The details for land for both the substation is mentioned below:

Substation Name	Acquired Land (in Acres)		No. of PAPs	Land compensation (in Lakhs)			R&R (in Lakhs)
	Pvt.	Govt		Pvt.	Govt	Total	
Champa	104.27	158	258	1229	711	1940	1043
Kurukshetra	NIL	116.7	NIL	NIL	2845	2845	NA

## Compensation for Tree/crop damages:

POWERGRID follows the principle of Avoidance, Minimization and Mitigation in the construction of line in agricultural field having crop, due to inherent flexibility in phasing the construction activity and tries to defer construction in cropped area to facilitate crop harvesting. However, if it is unavoidable and is likely to affect project schedule, compensation is given at market rate for standing crops. The process of tree/crop compensation is depicted in **Figure 1**. Also, all efforts are taken to minimize the crop damage to the extent possible in such cases. In the instant project too, POWERGRID is taking all possible measures to avoid damages to crop/trees by taking up the construction activities during lean period or in post-harvest season. As per the prevailing norms, farming activities are allowed after the construction work is completed. However, compensation for the loss of crops/trees/any structure etc. paid to Affected Persons (APs) for the area of actual damaged to mitigate the impacts probably 3 times i.e. during foundation work, tower erection & stringing as per the prevailing situation. Details of region/line wise compensation under different projects paid for tree/crop damages till March 2018 is given below:

**(i) ± 800kV Champa- Kurukshetra HVDC Bipole line:**

Sl. No	Location/ Region	No. of AP's	Affected Land Area (in Ha.)	Nos. of Tree affected	Compensation Paid for Crop damages (Rs. Lakh)			Compensation Paid for Tree damages (Rs. Lakh)		
					Foundation	Erection	Stringing	Foundation	Erection	Stringing
1.	HVDC line (Western Region-I portion)	5610	672.40	35539	175.05	183.85	193.41	4.33	0.92	741.60
2.	HVDC line (Western Region-II portion)	8592	2193.34	32589	413.83	380.25	348.74	45.06	59.97	398.46
3.	HVDC line (Northern Region-I portion)	20554	2469	99400	466.71	788.67	1579.97	35.96	35.50	525.55
	<b>Total</b>	<b>34756</b>	<b>5334.74</b>	<b>167528</b>	<b>1055.59</b>	<b>1352.77</b>	<b>2122.12</b>	<b>85.35</b>	<b>96.39</b>	<b>1665.61</b>

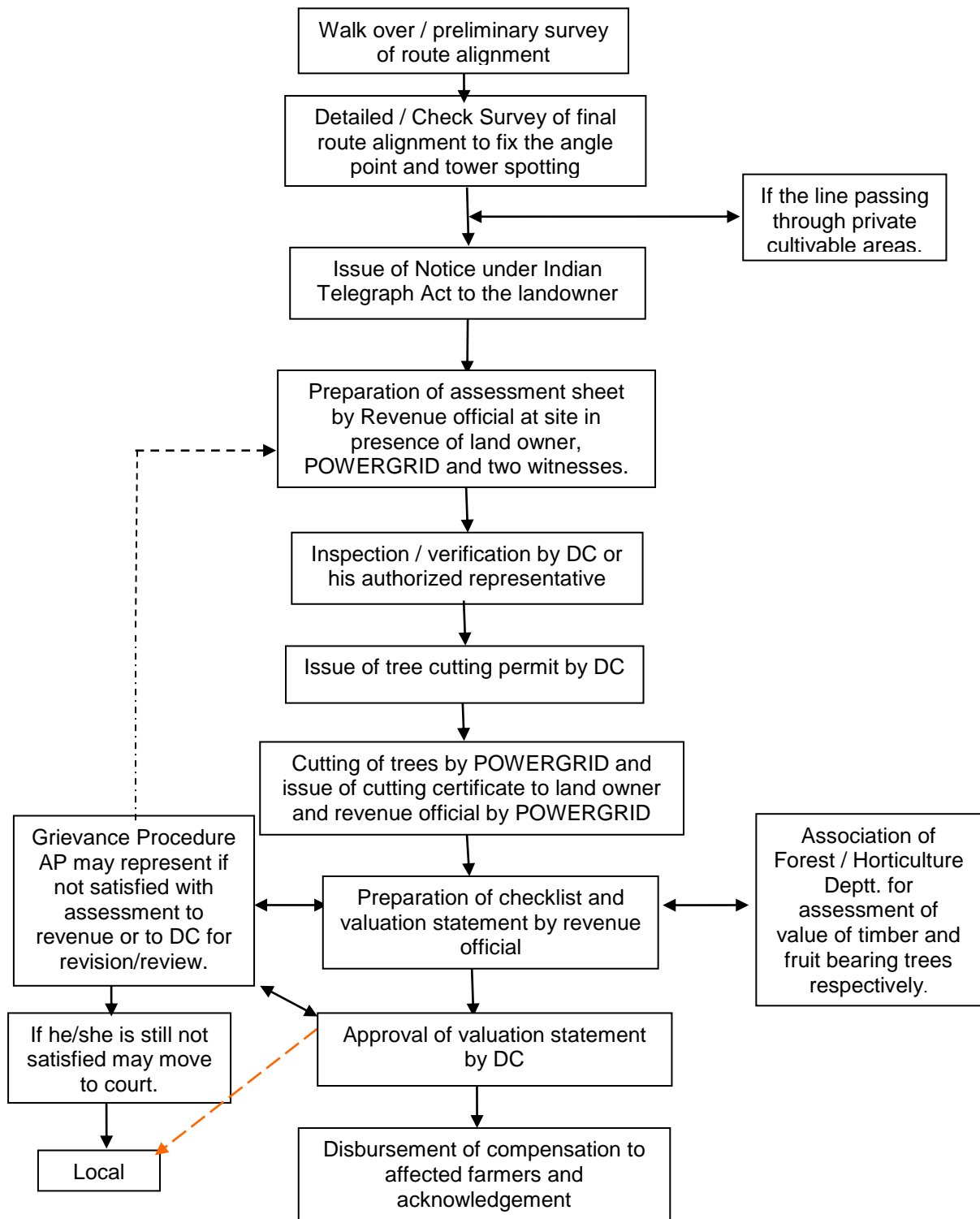
It may be noted that disbursement of tree and crop compensation to all affected farmers/persons has been completed and compensation to the tune of **Rs.6377.83 lakhs** has paid to affected farmers/persons against the DPR provision of Rs. 1273.21 lakhs. A sample copy of crop compensation notice along with payment details is enclosed at **Annexure-2**.

**(ii) Transmission lines under Inter-Regional System Strengthening Scheme for WR and NR (Part-B)**

Sl. No	Name of Tr. Line	No. of AP's	Affected Land Area (in Ha.)	Nos. of Tree affected	Compensation Paid for Crop damages (Rs. Lakh)			Compensation Paid for Tree damages (Rs. Lakh)		
					Foundation	Erection	Stringing	Foundation	Erection	Stringing
1.	Orai- Aligarh	12580	2179.1	13720	360.66	565.42	914.1	Nil	0.98	284.2
2.	Orai- Orai (UPPTCL)	848	175.81	53	34.4	39.45	48.24	Nil	Nil	0.47
3.	LILO of Agra- Meerut at Aligarh s/s	524	102.52	355	20.62	37.11	38.01	Nil	Nil	2.46
4.	LILO of Kanpur- Jhatikara at Aligarh s/s	450	104.47	140	5.414	15.13	47.71	Nil	Nil	3.77
	<b>Total</b>	<b>14402</b>	<b>2561.9</b>	<b>14268</b>	<b>421.09</b>	<b>657.11</b>	<b>1048.06</b>	<b>0</b>	<b>0.98</b>	<b>290.9</b>

It may be seen from above table that a total of **Rs. 2418.14 lakhs** compensation has been paid towards tree/crop compensation against the provision of Rs. 2036 lakhs kept in DPR.

**Figure 1: TREE / CROP COMPENSATION PROCESS**



**TABLE – 2: ENVIRONMENT MANAGEMENT PLAN**

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
<b>Pre-construction</b>							
Location of transmission towers and transmission line alignment and design	Exposure to safety related risks	Setback of dwellings to overhead line route designed in accordance with permitted level of power frequency and the regulation of supervision at sites.	Tower location and line alignment selection with respect to nearest dwellings	Setback distances to nearest houses - once	POWERGRID	Part of tower siting survey and detailed alignment survey and design	Details of compliance provided separately in environment monitoring report.
Equipment specifications and design parameters	Release of chemicals and gases in receptors (air, water, land)	PCBs not used in substation transformers or other project facilities or equipment.	Transformer design	Exclusion of PCBs in transformers stated in tender specification - once	POWERGRID	Part of tender specifications for the equipment	
		Processes, equipment and systems not to use chlorofluorocarbons (CFCs), including halon, and their use, if any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the Govt.	Process, equipment and system design	Exclusion of CFCs stated in tender specification – once	POWERGRID	Part of tender specifications for the equipment	
				Phase out schedule to be prepared in case still in use – once		Part of equipment and process design	
Transmission line design	Exposure to electromagnetic interference	Transmission line design to comply with the limits of electromagnetic interference from overhead power lines	Electromagnetic field strength for proposed line design	Line design compliance with relevant standards - once	POWERGRID	Part of detailed alignment survey and design	
Substation location and design	Exposure to noise	Design of plant enclosures to comply with noise regulations.	Expected noise emissions based on substation design	Compliance with regulations - once	POWERGRID	Part of detailed siting survey and design	
Location of transmission towers and transmission line alignment	Impact on water bodies and land	Consideration of tower location at where they could be located to avoid water bodies or agricultural land.	Tower location and line alignment selection (distance to water and/or agricultural land)	Consultation with local authorities and land owners - once	POWERGRID	Part of tower siting survey and detailed alignment survey and	Complied during survey. Route alignment criterion is part of survey contract.

National Grid Improvement Project /Loan 2787-IND & 2788-IND/-Oct.'18-Mar.'19

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
and design	Social inequities	Careful route selection to avoid existing settlements	Tower location and line alignment selection (distance to nearest dwellings or social institutions)	Consultation with local authorities and land owners - once	POWERGRID	Part of detailed tower siting and alignment survey & design	
		Minimise need to acquire agricultural land	Tower location and line alignment selection (distance to agricultural land)	Consultation with local authorities and land owners - once	POWERGRID	Part of detailed tower siting and alignment survey & design	
Involuntary resettlement or land acquisition	Social inequities	Compensation paid for temporary/permanent loss of productive land as per LAA and its process	RAP implementation	Consultation with affected parties – once in a quarter	POWERGRID	Prior to construction phase	Progressive social entitlement framework is part of policy and implemented in true spirit. For details of land secured, please refer Section -3.
Encroachment into precious ecological areas	Loss of precious ecological values/ damage to precious species	Avoid encroachment by careful site and alignment selection	Tower location and line alignment selection (distance to nearest designated ecological protection area)	Consultation with local forest authorities - once	POWERGRID	Part of detailed siting and alignment survey /design	Details of compliance provided separately in environment monitoring report.
Transmission line through forestland	Deforestation and loss of biodiversity	Avoid encroachment by careful site and alignment selection	Tower location and line alignment selection (distance to nearest protected or reserved forest)	Consultation with local authorities - once	POWERGRID	Part of detailed siting and alignment survey/design	
		Minimise the need by using existing towers, tall towers and RoW, wherever possible		Consultation with local authorities and design engineers - once			
		Obtain statutory clearances from the Government	Statutory approvals from Government	Compliance with regulations – once for each subproject			

National Grid Improvement Project /Loan 2787-IND & 2788-IND/-Oct.'18-Mar.'19

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
Encroachment into farmland	Loss of agricultural productivity	Use existing tower footings/towers wherever possible	Tower location and line alignment selection	Consultation with local authorities and design engineers - once	POWERGRID	Part of detailed alignment survey & design	Complied during survey which is part of survey contract. However, as per law of land, no land is acquired for transmission line but all damages are compensated as per provision of Electricity Act, 2003 and Indian Telegraph Act, 1885. Till March.'19, a total tree/crop compensation of Rs 87. 95 Crores has been paid to affected farmers/ owners.
		Avoid siting new towers on farmland wherever feasible	Tower location and line alignment selection	Consultation with local authorities and design engineers - once		Part of detailed siting and alignment survey /design	
		Farmers compensated for any permanent loss of productive land	Design of Implementation of Crop Compensation (based on affected area)	Consultation with affected parties – once in a quarter		Prior to construction phase	
		Farmers/landowners compensated for significant trees that need to be trimmed/ removed along RoW.	Design of Implementation of Tree compensation (estimated area to be trimmed/ removed)	Consultation with affected parties – once in a quarter		Part of detailed siting and alignment survey /design	
		Statutory approvals for tree trimming /removal	Compliance with regulations – once for each subproject				
Noise related	Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance.	Noise levels	Noise levels to be specified in tender documents – once	POWERGRID	Part of detailed equipment design	Details of compliance provided separately in environment monitoring report.
Interference with drainage patterns/Irrigation channels	Flooding hazards/loss of agricultural production	Appropriate siting of towers to avoid channel interference	Tower location and line alignment selection (distance to nearest flood zone)	Consultation with local authorities and design engineers - once	POWERGRID	Part of detailed alignment survey and design	
Escape of polluting materials	Environmental pollution	Transformers designed with oil spill containment systems, and purpose-built oil, lubricant and fuel storage system, complete with spill cleanup equipment.	Equipment specifications with respect to potential pollutants	Tender document to mention specifications - once	POWERGRID	Part of detailed equipment design /drawings	



Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
		Substations to include drainage and sewage disposal systems to avoid offsite land & water pollution.	Substation sewage design	Tender document to mention detailed specifications – once	POWERGRID	Part of detailed substation layout and design /drawings	
Explosions /Fire	Hazards to life	Design of substations to include modern fire control systems/firewalls.	Substation design compliance with fire prevention and control codes	Tender document to mention detailed specifications - once	POWERGRID	Part of detailed substation layout and design /drawings	
		Provision of fire fighting equipment to be located close to transformers.					
<b>Construction</b>							
Equipment layout and installation	Noise and vibrations	Construction techniques and machinery selection seeking to minimize ground disturbance.	Construction techniques and machinery	Construction techniques and machinery creating minimal ground disturbance- once at the start of each construction phase	POWERGRID (Contractor through contract provisions as per Sec- VII, 44.7)	Construction period	
Physical construction	Disturbed farming activity	Construction activities on cropping land timed to avoid disturbance of field crops (within one month of harvest wherever possible).	Timing of start of construction	Crop disturbance – Post harvest as soon as possible but before next crop - once per site	POWERGRID (Contractor through contract provisions as per Sec-II, 2.5)	Construction period	Construction on farm land being undertaken mostly during post harvest period. Wherever crop loss occurs, compensation is paid to farm owners. Till March.'19, an amount of Rs. 66.57 Crores has been paid to famers/land owners for crop loss.
Mechanized construction	Noise, vibration and operator safety, efficient operation	Construction equipment to be well maintained.	Construction equipment – estimated noise emissions	Complaints received by local authorities - every 2 weeks	POWERGRID (Contractor through contract provisions as per Sec-VIII, 44.7)	Construction period	Details of compliance provided separately in environment monitoring report.

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	Noise, vibration, equipment wear and tear	Turning off plant not in use.	Construction equipment – estimated noise emissions and operating schedules	Complaints received by local authorities - every 2 weeks	POWERGRID (Contractor through contract provisions as per Sec-VIII, 44.7)	Construction period	
Construction of roads for accessibility	Increase in airborne dust particles	Existing roads and tracks used for construction and maintenance access to the line wherever possible.	Access roads, routes (length and width of new access roads to be constructed)	Use of established roads wherever possible - every 2 weeks	POWERGRID (Contractor through contract provisions as per Sec-II, 2.8)	Construction period	
	Increased land requirement for temporary accessibility	New access ways restricted to a single carriageway width within the RoW.	Access width (meters)	Access restricted to single carriage -way width within RoW - every 2 weeks	POWERGRID (Contractor through contract provisions as per Sec-II, 2.8)	Construction period	Complied/ Being Complied
Temporary blockage of utilities	Overflows, reduced discharge	Temporary placement of fill in drains/canals not permitted.	Temporary fill placement (m <sup>3</sup> )	Absence of fill in sensitive drainage areas - every 4 weeks	POWERGRID (Contractor through contract provisions as per Sec-II, 2.6)	Construction period	Details of compliance provided separately in environment monitoring report.
Site clearance	Vegetation	Marking of vegetation to be removed prior to clearance, and strict control on clearing activities to ensure minimal clearance.	Vegetation marking and clearance control (area in m <sup>2</sup> )	Clearance strictly limited to target vegetation - every 2 weeks	POWERGRID (Contractor through contract provisions as per Sec-VIII, 43.5 & Sec. II, 2.6)	Construction period	
Trimming /cutting of trees within RoW	Fire hazards	Trees allowed growing up to a height within the RoW by maintaining adequate clearance between the top of tree and the conductor as per the regulations.	Species-specific tree retention as approved by statutory authorities (average and maximum tree height at maturity, in meters)	Presence of target species in RoW following vegetation clearance – once per site	POWERGRID (Contractor through contract provisions)	Construction period	

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	Loss of vegetation and deforestation	Trees that can survive pruning to comply should be pruned instead of cleared.	Species-specific tree retention as approved by statutory authorities	Presence of target species in RoW following vegetation clearance-once per site	POWERGRID (Contractor through contract provisions)	Construction period	
		Felled trees and other cleared or pruned vegetation to be disposed of as authorized by the statutory bodies.	Disposal of cleared vegetation as approved by the statutory authorities (area cleared in m <sup>2</sup> )	Use or intended use of vegetation as approved by the statutory authorities – once per site	POWERGRID (Contractor through contract provisions)	Construction period	
Wood/vegetation harvesting	Loss of vegetation and deforestation	Construction workers prohibited from harvesting wood in the project area during their employment, (apart from locally employed staff continuing current legal activities)	Illegal wood /vegetation harvesting (area in m <sup>2</sup> , number of incidents reported)	Complaints by local people or other evidence of illegal harvesting - every 2 weeks	POWERGRID (Contractor through contract provisions as per Sec-II, 2.3)	Construction period	Details of compliance provided separately in environment monitoring report.
Surplus earthwork/soil	Runoff to cause water pollution, solid waste disposal	Soil excavated from tower footings disposed of by placement along roadsides, or at nearby house blocks if requested by landowners	Soil disposal locations and volume (m <sup>3</sup> )	Acceptable soil disposal sites - every 2 weeks	POWERGRID (Contractor through contract provision as per Sec-VIII, 43.5 & Sec-II, 2.6)	Construction period	
Site clearance	Vegetation	Tree clearances for easement establishment to only involve cutting trees off at ground level or pruning as appropriate, with tree stumps and roots left in place and ground cover left undisturbed	Ground disturbance during vegetation clearance (area, m <sup>2</sup> )	Amount of ground disturbance - every 4 weeks	POWERGRID (Contractor through contract provisions)	Construction period	
			Statutory approvals	Statutory approvals for tree clearances – once for each site	POWERGRID (Contractor through contract provisions)	Construction period	
Tower construction – disposal of surplus earthwork/fill	Waste disposal	Excess fill from tower foundation excavation disposed of next to roads or around houses, in agreement with the local community or landowner	Location and amount (m <sup>3</sup> )of fill disposal	Appropriate fill disposal locations - every 2 weeks	POWERGRID (Contractor through contract provision as per Sec-II, 2.6 & Sec-VIII, 43.5)	Construction period	

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
Storage of chemicals and materials	Contamination of receptors (land, water, air)	Fuel and other hazardous materials securely stored above high flood level.	Location of hazardous material storage; spill reports (type of material spilled, amount (kg or m <sup>3</sup> ) and action taken to control and clean up spill)	Fuel storage in appropriate locations and receptacles - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	
Construction schedules	Noise nuisance to neighbouring properties	Construction activities only undertaken during the day and local communities informed of the construction schedule.	Timing of construction (noise emissions, [dB(A)])	Daytime construction only - every 2 weeks	POWERGRID (Contractor through contract provision as per Sec-VIII, 44.7)	Construction period	Details of compliance provided in environment monitoring report.
Provision of facilities for construction workers	Contamination of receptors (land, water, air)	Construction workforce facilities to include proper sanitation, water supply and waste disposal facilities.	Amenities for Workforce facilities	Presence of proper sanitation, water supply and waste disposal facilities - once each new facility	POWERGRID (Contractor through contract provisions)	Construction period	
Encroachment into farmland	Loss of agricultural productivity	Use existing access roads wherever possible	Usage of existing utilities	Complaints received by local people /authorities - every 4 weeks	POWERGRID (Contractor through contract provisions as per Sec-II, 2.8) Sec-II, 2.5 & Sec-II, 2.7	Construction period	Being complied. No complaints received from local peoples/ authorities
		Ensure existing irrigation facilities are maintained in working condition	Status of existing facilities				
		Protect /preserve topsoil and reinstate after construction completed	Status of facilities (earthwork in m <sup>3</sup> )				
	Repair /reinstated damaged bunds etc after construction completed	Status of facilities (earthwork in m <sup>3</sup> )					
	Social inequities	Compensation for temporary loss in agricultural production	Implementation of Crop compensation (amount paid, dates, etc.)	Consultation with affected parties – once in a quarter	POWERGRID	Prior to construction	Tried to minimise the loss. However, Rs. 87.95 Crores has been paid towards crop & tree compensation till March'19 (refer Table-2).

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
Uncontrolled erosion/silt runoff	Soil loss, downstream siltation	Need for access tracks minimised, use of existing roads.	Design basis and construction procedures (suspended solids in receiving waters; area re-vegetated in m <sup>2</sup> ; amount of bunds constructed [length in meter, area in m <sup>2</sup> , or volume in m <sup>3</sup> ])	Incorporating good design and construction management practices – once for each site	POWERGRID (Contractor through contract provisions as per Sec-II,2.8)	Construction period	
		Limit site clearing to work areas					
		Regeneration of vegetation to stabilise works areas on completion (where applicable)					
		Avoidance of excavation in wet season					
		Water courses protected from siltation through use of bunds and sediment ponds					
Nuisance to nearby properties	Losses to neighbouring land uses/ values	Contract clauses specifying careful construction practices.	Contract clauses	Incorporating good construction management practices – once for each site	POWERGRID (Contractor through contract provision as per Sec-II, 2.8)	Construction period	No complaints received
		As much as possible existing access ways will be used	Design basis and layout	Incorporating good design engineering practices– once for each site			Complied/ Being Complied
		Productive land will be reinstated following completion of construction	Reinstatement of land status (area affected, m <sup>2</sup> )	Consultation with affected parties – twice- immediately after completion of construction and after the first harvest			No complaints received
	Social inequities	Compensation will be paid for loss of production, if any.	Implementation of Tree/Crop compensation (amount paid)	Consultation with affected parties – once in a quarter			POWERGRID

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
Inadequate siting of borrow areas	Loss of land values	Existing borrow sites will be used to source aggregates, therefore, no need to develop new sources of aggregates	Contract clauses	Incorporating good construction management practices – once for each site	POWERGRID (Contractor through contract provisions)	Construction period	Complied/ Being Complied
Health and safety	Injury and sickness of workers and members of the public	Contract provisions specifying minimum requirements for construction camps	Contract clauses (number of incidents and total lost-work days caused by injuries and sickness)	Contract clauses compliance – once every quarter	POWERGRID (Contractor through contract provisions as per Sec-II, 2.2 (V, VII, VIII) and also Safety precautions in spe. contract Condition 43.2)	Construction period	Complied with project specific safety plan and general conditions of contract, which covers all applicable regulations.
		Contractor to prepare and implement a health and safety plan.					
		Contractor to arrange for health and safety training sessions					
Inadequate construction stage monitoring	Likely to maximise damages	Training of POWERGRID environmental monitoring personnel	Training schedules	Number of programs attended by each person – once a year	POWERGRID	Routinely throughout construction period	Details of compliance provided separately in environment monitoring report.
		Implementation of effective environmental monitoring and reporting system using checklist of all contractual environmental requirements	Respective contract checklists and remedial actions taken thereof.	Submission of duly completed checklists of all contracts for each site - once			
		Appropriate contract clauses to ensure satisfactory implementation of contractual environmental mitigation measures.	Compliance report related to environmental aspects for the contract	Submission of duly completed compliance report for each contract - once			
<b>Operation and Maintenance</b>							
Location of transmission towers and transmission line alignment and design	Exposure to safety related risks	Setback of dwellings to overhead line route designed in accordance with permitted level of power frequency and the regulation of supervision at sites.	Compliance with setback distances (“as-built” diagrams)	Setback distances to nearest houses – once in quarter	POWERGRID	During operations	Details of compliance provided separately in environment monitoring report.

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
Equipment submerged under flood	Contamination of receptors (land, water)	Equipment installed above the high flood level (HFL) by raising the foundation pad.	Substation design to account for HFL ("as-built" diagrams)	Base height as per flood design - once	POWERGRID	During operations	-do-
Oil spillage	Contamination of land/nearby water bodies	Substation transformers located within secure and impervious sump areas with a storage capacity of at least 100% of the capacity of oil in transformers and associated reserve tanks.	Substation bunding (Oil sump) ("as-built" diagrams)	Bunding (Oil sump) capacity and permeability - once	POWERGRID	During operations	-do-
Inadequate provision of staff/workers health and safety during operations	Injury and sickness of staff /workers	Careful design using appropriate technologies to minimise hazards	Usage of appropriate technologies (lost work days due to illness and injuries)	Preparedness level for using these technologies in crisis – once each year	POWERGRID	Design and operation	-do-
		Safety awareness raising for staff.	Training/awareness programs and mock drills	Number of programs and percent of staff /workers covered – once each year			
		Preparation of fire emergency action plan and training given to staff on implementing emergency action plan					
		Provide adequate sanitation and water supply facilities	Provision of facilities	Complaints received from staff /workers every 2 weeks			
Electric Shock Hazards	Injury/ mortality to staff and public	Careful design using appropriate technologies to minimise hazards	Usage of appropriate technologies (number of injury incidents, lost work days)	Preparedness level for using these technology in crisis – once a month	POWERGRID	Design and Operation	-do-
		Security fences around substations	Maintenance of fences	Report on maintenance – every 2 weeks			
		Barriers to prevent climbing on/dismantling of transmission towers	Maintenance of barriers				
		Appropriate warning signs on facilities	Maintenance of warning signs				

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
		Electricity safety awareness raising in project areas	Training /awareness programs and mock drills for all concerned parties	Number of programs and percent of total persons covered – once each year			-do-
Operations and maintenance staff skills less than acceptable	Unnecessary environmental losses of various types	Adequate training in O&M to all relevant staff of substations & transmission line maintenance crews.	Training/awareness programs and mock drills for all relevant staff	Number of programs and percent of staff covered – once each year	POWERGRID	Operation	-do-
		Preparation and training in the use of O&M manuals and standard operating practices.					
Inadequate periodic environmental monitoring.	Diminished ecological and social values.	Power Grid staff to receive training in environmental monitoring of project operations and maintenance activities.	Training/awareness programs and mock drills for all relevant staff	Number of programs and percent of staff covered – once each year	POWERGRID	Operation	-do-
Equipment specifications and design parameters	Release of chemicals and gases in receptors (air, water, land)	Processes, equipment and systems using chlorofluorocarbons (CFCs), including halon, should be phased out and to be disposed of in a manner consistent with the requirements of the Govt.	Process, equipment and system design	Phase out schedule to be prepared in case still in use – once in a quarter	POWERGRID	Operations	-do-
Transmission line maintenance	Exposure to electromagnetic interference	Transmission line design to comply with the limits of electromagnetic interference from overhead power lines	Required ground clearance (meters)	Ground clearance - once	POWERGRID	Operations	-do-
Noise related	Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance.	Noise levels (dB(A))	Noise levels at boundary nearest to properties and consultation with affected parties if any - once	POWERGRID	Operations	-do-



## SECTION: 4 APPROACH AND METHODOLOGY ADOPTED FOR MONITORING OF THE PROJECT

Monitoring is a continuous process throughout the Project life cycle starting from site selection to construction and maintenance state. A Project Management Unit (PMU) has been set up headed by Executive Director (Corporate Planning) at headquarters to coordinate and implement all environment and social issues with the assistance of functional department like Environment & Social Management Deptt., Engineering etc. Apart from this, site managers review the progress on daily basis and regular project review meetings held at least on monthly basis, chaired by the Executive Director of the region wherein the environmental aspects of the projects are discussed and remedial measures taken, wherever required. The exceptions of these meetings will be submitted to the Directors and Chairman & Managing Director (CMD).

POWERGRID has separate monitoring departments which carry out real time monitoring of all parameters of project implementation including the environment and social issues. Such issues are discussed in detail during every quarter in the Project Review Meeting (PRM) chaired by Director (Project). CMD also takes periodic review of project implementation.

## SECTION: 5 DETAILS OF GRIEVENCE REDRESS COMMITTEE AND COMPLAINT RECEIVED & ACTION TAKEN

POWERGRID has a well establish Grievance Redressal Mechanism (GRM) inbuilt in the process itself to receive complaints and grievances to facilitate concerns of project affected persons (PAPs). As a regular practice, wherever fresh land acquisition is involved, a committee is formed comprising of POWERGRID officials, representatives of local authorities, PAPs, Gram Panchayat and well-reputed person to address the grievances of the affected persons. However, in the instant project for Kurukshetra terminal station, no such committee is needed since the land area of 116.7 acres acquired is a govt./Panchayat land. In case of Champa terminal station the private land has been acquired with negotiated settlement/consent award (copy of minutes of meeting enclosed as **Annexure-3**), Grievance Redressal Committee (GRC) has been constituted with representatives from POWERGRID, Revenue authorities, PAPs and Gram panchayat. Composition of existing Grievance Redressal Committee at Champa substation is as follows-

### Village Taga

S.No.	Nominee's Organization	Name/Designation
1	Representative of local authority	Sub Divisional cum Land acquisition officer, Janjgir Dist.-Janjgir-Champa
2	Representative of Gram Panchayat	Sarpanch village Taga, Tehsil-Akaltara,
3	POWERGRID representative (Site)	Sh. R S Gupta, AGM (Champa)
4	Representative of PAPs	1) Shri Shivnandan Yadav 2) Shri Kholbahara

### Village Chorbhatthi

S. no.	Nominee's Organization	Name/Designation
1	Representative of local authority	Sub Divisional cum Land acquisition officer, Pamgarh, Dist-Janjgir-Champa
2	Representative of Gram Panchayat	Sarpanch Pamgarh, Tehsil-Pamgarh,
3	POWERGRID representative (Site)	Shri. R S Gupta, AGM (Champa)
4	Representative of PAPs	1) Sh. Umendram 2) Sh. Bisham

It may be noted that substation at Orai and Aligarh are not under the scope of funding. However, GRC is not required at both these places as Private land have been purchased on “**Willing Buyer Willing Seller**” basis on mutually negotiated price.

In case of transmission line, the GRM process is in built in the tree & crop compensation process, where affected persons are given a chance to place their grievances after issuance of notice by revenue officials on the basis of assessment of actual damages. Grievances received towards compensation are generally addressed in open forum and in the presence of many witnesses. Process of spot verification and random checking by the district collector also provides forum for raising the grievance towards any irregularity/complaint. Apart from this, POWERGRID officials also listen to the complaints of affected farmers and the same are forwarded to revenue official for doing the needful and, if required, POWERGRID takes necessary action to mitigate the concern of the affected.

## **SECTION: 6 CONCLUSION**

It may be noted that all the possible measures have been taken to avoid/minimize the negative impacts of land acquisition. As regard Champa substation, out of 262.27 acre land, 158 acre land govt. land and remaining 104.27 acre private land was acquired from 258 land owners. Land compensation offered at Rs. 10 Lakhs/ acre as per Aadarsh Punarvaas Neeti of Govt. of Chhattisgarh and additional compensation of Rs. 10 Lakhs/ acre (Rs. 7 Lakhs towards land compensation enhancement and 3 Lakhs towards one time settlement in lieu of employment) including Rehabilitation Assistance and cost for job, was paid as per demand/agreement with land owners.

For Kurukshetra substation, 116.7 acre govt. land was secured by State Govt. and possession was taken on 17.10.14. Since land was govt. owned encroachment free land there were no PAPs involved. Hence, no RAP was required.

It is evident from above that mostly govt. land was selected for construction of substations. Private land was acquired for Champa Substation, but adequate compensation have been paid to land owners.

The 800kV Champa- Kurukshetra HVDC line has length of approximately 1286.7 km with around 3220 towers location. For construction of said line all payment towards tree and crop compensation has been completed and compensation to the tune of Rs.6377.83 lakhs was paid to affected farmers/persons against the DPR provision of Rs. 1273.21 lakhs.

Similarly, in case of Orai- Aligarh, Orai-Orai, LILO of Agra- Meerut and LILO Kanpur- Jhatikara lines a total of Rs. 2418.14 lakhs compensation has already been paid to affected farmers/persons towards tree/crop compensation against the DPR provision of Rs. 2036 lakhs.



**R.K.SRIVASTAVA**  
**Chief General Manager I/c (ESMD)**

**PLATE 1: COMMUNITY DEVELOPMENT WORK AT KURUKSHETRA SUBSTATION**



**CONSTRUCTION OF INTERLOCKING PATH WITHIN THE VILLAGE**



**CONSTRUCTION OF SHED AT SHAMSHAN GHAT**



**BOUNDARYWALL & BARAMDA OF SHAMSHAN GHAT**



**CONSTRUCTION OF COMMUNITY CENTRE**

**CONSTRUCTION OF ILPB PAVEMENT IN RAJIV GANDHI SEWA KENDRA**



**PLATE 2: COMMUNITY DEVELOPMENT & CSR WORKS AT CHAMPA SUBSTATION**



**CONSTRUCTION OF RCC BOX CULVERT AT VILL - TAGA**



**DEVELOPMENT OF PLAYGROUND AND CHILDREN PARK AT VILLAGE CHORBATTI**



**SEMI HIGH MAST LAMP AT VILLAGE TAGA & CHORBHATTHI**



**CONST. OF COMMUNITY CENTER (UNDER CONSTRUCTION) & DEVELOPMENT OF AREA AROUND COMM. CENT. & BOUNDARY WALL VILL - TAGA (COMPLETED)**

PLATE 3 : HEALTH CHECK UP CAMP AT CHAMPA



### HEALTH CHECK UP CAMP AT ORAI



## Annexure -1: Reduction of Land area for Kurukshetra and Consent from HVPN



HARYANA VIDYUT PRASARAN NIGAM LIMITED  
(A Govt. of Haryana Undertaking)  
Chief Engineer, Planning, Panchkula  
Phone 0172-2584338, Fax 0172-2584415  
Email: Planning\_hvpnl@yahoo.com

To

The Managar T/L,  
PGCIL, 400 kV substation Abdullapur  
Village Bhambholi, Jagadhari - Ambala Road  
District Yamuna Nagar (Haryana)

Memo No CH- 7 /HSS-367

Dated 29/07/2011

Subject: Acquisition of land for construction of 800 kV substation at Kurukshetra by PGCIL.

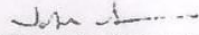
Please refer to Sub-Divisional Officer (Civil)-cum-Land Acquisition Collector, Indri District Karnal office memo no. 387/MC dated 18.07.2011 addressed to FC&PS, GoH Power Deptt. with a copy to your office regarding Notification u/s 4 of the Land Acquisition Act 1894 for acquisition of 173.38 acres of land of village Bhadson, Tehsil Indri, District Karnal.

It appears that land requirement is on higher side. The justification for acquiring 173.38 acre fertile land may be supplied alongwith applicable guidelines. PGCIL may also suggest the measures by which the land requirement can be reduced by adopting GIS Technology/ Vertical configuration etc

It is also intimated that the proposed site is about 40-50 km of Deenbandhu Chhotu Ram Thermal Power Plant (DCRTPP), Yamuna Nagar. Haryana has already created 220 kV substations at Salampur and Unispur (Nilokheri) for utilization of power of DCRTPP. These substations are very close to the proposed site of subject cited substation. Additional 3<sup>rd</sup> generating unit of 1x660 MW at DCRTPP has already been planned. This additional power will be utilized to meet the load requirement in Kurukshetra and Penowa area.

It has been decided in 28<sup>th</sup> meeting of the standing committee on power system planning of northern region held on 23.02.2010 that 2x500 MVA, 400/220 kV transformers are planned to be installed at proposed 800 kV substation at Kurukshetra for use of Haryana. It will be difficult to evacuate power as the load of nearby area has already been planned to be fed from DCRTPP, Yamuna Nagar.

In view of above it is requested to change the site if possible, for creation of proposed 800 kV substation

  
Chief Engineer/ Planning,  
HVPNL, Panchkula

POWER GRID CORPORATION OF INDIA LIMITED  
REGIONAL ENGINEERING SERVICES  
Northern Region - II, Jammu



INTER OFFICE MEMO

From: AGM (Engg/FQA)  
NR-II, Jammu.

To: GM(HVDC), CC Gurgaon

CC: 1) ED, NR-II For kind info.  
2) GM (Projects)

Ref No : N2JM/Engg/SS-30/2011/ 709  
Dated : 03.08.2011

Subject: Land acquisition for 800kV HVDC Terminal Station near kurukshetra associated with IPP's in Chattisgarh (ADB funded project).

Enclosed please find herewith a letter (reference no: Ch-7/HSS-367 dated 29.07.2011) from Chief Engineer/ planning, HVPNL on subject matter. In this context it is intimated that the case for notification under section 4 of Land Acquisition Act, 1894 for acquisition of 173.38 acres of Land for subject Station in Village Bhadson, Tehsil Indri, District Karnal was got processed through SDO (Civil) eum LAC, Tehsil Indri, district Karnal and forwarded to FC& PS, Power dept., Government of Haryana.. Out of these 173.38 acres, major chunk of approx. 150 acres belongs to village Panchayat and is lying vacant. Only 25 to 30 acres of land belongs to farmers and is being cultivated.

However, as per aforementioned letter received from CE/ Planning, HVPNL has sought clarification on certain issues before case for notification under section 4 can be forwarded to Government of Haryana. It was intimated to CE/Planning, HVPNL that that the land being acquired is the bare minimum and with Technology enhancement additional land for earth electrode is no more being acquired. A copy of layout of HVDC Terminal Station was also provided to CE/ Planning, HVPNL. However, CE/ Planning, HVPNL is still not satisfied and asked for further Technical clarification/ justification. It is therefore requested that suitable Technical justification/ inputs may be forwarded through return fax so that a suitable reply can be forwarded to CE/ Planning, HVPNL from this end.

Matter URGENT

Encl.: As above

Ashwini K. Srivastava  
(A. K. Srivastava) 02



पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

भारत सरकार का उद्यम

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

केंद्रीय कार्यालय: इंदौरमार्ग, कटवारीया सराय, नई दिल्ली-110017  
Corporate Office: "Saudamini", Plot No. 1, Sector-29, Gurgaon-125 002, Haryana  
Tel: 2571700, Fax: 2571760, 2571761, 2571762, 2571763, 2571764, 2571765, 2571766, 2571767, 2571768, 2571769, 2571770, 2571771, 2571772, 2571773, 2571774, 2571775, 2571776, 2571777, 2571778, 2571779, 2571780, 2571781, 2571782, 2571783, 2571784, 2571785, 2571786, 2571787, 2571788, 2571789, 2571790, 2571791, 2571792, 2571793, 2571794, 2571795, 2571796, 2571797, 2571798, 2571799, 2571800, 2571801, 2571802, 2571803, 2571804, 2571805, 2571806, 2571807, 2571808, 2571809, 2571810, 2571811, 2571812, 2571813, 2571814, 2571815, 2571816, 2571817, 2571818, 2571819, 2571820, 2571821, 2571822, 2571823, 2571824, 2571825, 2571826, 2571827, 2571828, 2571829, 2571830, 2571831, 2571832, 2571833, 2571834, 2571835, 2571836, 2571837, 2571838, 2571839, 2571840, 2571841, 2571842, 2571843, 2571844, 2571845, 2571846, 2571847, 2571848, 2571849, 2571850, 2571851, 2571852, 2571853, 2571854, 2571855, 2571856, 2571857, 2571858, 2571859, 2571860, 2571861, 2571862, 2571863, 2571864, 2571865, 2571866, 2571867, 2571868, 2571869, 2571870, 2571871, 2571872, 2571873, 2571874, 2571875, 2571876, 2571877, 2571878, 2571879, 2571880, 2571881, 2571882, 2571883, 2571884, 2571885, 2571886, 2571887, 2571888, 2571889, 2571890, 2571891, 2571892, 2571893, 2571894, 2571895, 2571896, 2571897, 2571898, 2571899, 2571900, 2571901, 2571902, 2571903, 2571904, 2571905, 2571906, 2571907, 2571908, 2571909, 2571910, 2571911, 2571912, 2571913, 2571914, 2571915, 2571916, 2571917, 2571918, 2571919, 2571920, 2571921, 2571922, 2571923, 2571924, 2571925, 2571926, 2571927, 2571928, 2571929, 2571930, 2571931, 2571932, 2571933, 2571934, 2571935, 2571936, 2571937, 2571938, 2571939, 2571940, 2571941, 2571942, 2571943, 2571944, 2571945, 2571946, 2571947, 2571948, 2571949, 2571950, 2571951, 2571952, 2571953, 2571954, 2571955, 2571956, 2571957, 2571958, 2571959, 2571960, 2571961, 2571962, 2571963, 2571964, 2571965, 2571966, 2571967, 2571968, 2571969, 2571970, 2571971, 2571972, 2571973, 2571974, 2571975, 2571976, 2571977, 2571978, 2571979, 2571980, 2571981, 2571982, 2571983, 2571984, 2571985, 2571986, 2571987, 2571988, 2571989, 2571990, 2571991, 2571992, 2571993, 2571994, 2571995, 2571996, 2571997, 2571998, 2571999, 2572000

संख्या/Ref. Number

C/ENG/SEF/N/NR-PLG

Dated 12/08/2011

Ms Jyoti Arora, IAS  
Managing Director,  
Haryana Vidyut Prasaran Nigam,  
Shakti Bhawan, Sector-6,  
Panchkula 134 109

Subject: Land for HVDC Terminal Station at Kurukshetra

Madam,

This is with reference to the discussions undersigned had with you in regard to setting up of HVDC terminal station at Kurukshetra of Champa – Kurukshetra HVDC Bipole line. This 800 kV Champa – Kurukshetra HVDC bipole line shall be developed in two phases with an ultimate capacity of 6000 MW. Kurukshetra terminal station would consist of 2 nos. of HVDC bioples each having a capacity of 3000 MW and a 400 kV substation which is required for dispersal of power. Accordingly the land requirement of 173 acres was worked out. However as suggested by you, we have reviewed the design of the station and now we are considering 400 kV GIS station in place of conventional Air Insulated substation. This would reduce the requirement of land to about 110 acres.

It is to mention that Champa – Kurukshetra HVDC line has been planned to bring power from various generating stations in Chattisgarh, being pooled at Champa pooling station to Kurukshetra. Injection of 6000 MW of power would provide undisturbed reliable power supply at the doorstep of Haryana, which is equivalent to setting up of a pollution free 6000 MW power generating station in Haryana. The HVDC line would provide controlled power flow resulting into improvement of grid stability & reliability of power in Haryana and nearby regions as well as reduction of transmission losses. From the above it may be appreciated that Champa – Kurukshetra HVDC bipole would be of great help to the state in long term perspective.

Further, it is to inform that we are planning to commission the first phase of HVDC bipole by 2014-15, and keeping in view the tight schedule for large quantum of works involved we have already started tendering activities. It is requested to kindly extend necessary support in obtaining acquisition of about 110 acres of land at in Kurukshetra area. In this regard if desired, we can come to your office to discuss the matter and other concerned officers.

Thanking you

Yours faithfully

Handwritten signature: H.S. Jha

ED (SIS) T/L

Handwritten signature: I S Jha

(I S Jha)  
Director (Projects)

## Annexure -2: Sample Copy of Compensation Process

# 9761142830

**POWERGRID CORPORATION OF INDIA LIMITED**  
(A Government of India Enterprise)  
800/400/220 KV Substation, Delhi Roorkee Road  
Gram Mataur, Post Daurala, Meerut-250221 (UP)  
(FAX: 01237- 231673, Phone: 230700)

MRT 145

Ref. No.: NR-I/MRT/TU...../

Loc. No. 707/1  
Work TC  
Date: 23/02/15

To,  
Sh. पुर्वीण कुशाद S/o Sh. जोशवीर सिंह  
Gram: पसवाण Post: रवास  
Tehsil: सवाना District: मेरठ

Sub:- Notice regarding Construction of ±800 KV HVDC Champa – Kurukshetra Transmission line - compensation for damages.

Power Grid Corporation of India Ltd. is mandated to construct the subject line, under section 164 of Indian Electricity Act-2003, read with section-10 of Indian Telegraph Act-1885 and the order of Ministry of Power dated 24.12.2003 (Gazette Notification dated – 24.12.2003). This line passes through the Village पसवाण Tehsil सवाना District मेरठ.

It has been observed that Tree as detailed here under are falling within the Right of Way of the aforesaid transmission line, and are likely to be damaged unless salvaged immediately.

Depending upon actual damages, we shall pay compensation for the losses on account of Tree, on the basis of guidelines received from the local bodies/ revenue authorities.

Details of Trees: Khasara No. : 11

Sl. No.	Name/ type of Tree	No. of Trees	Girth at a height of 1 mtr. (Cm.)	Remarks
	<u>पुर्वीण कुशाद</u>	<u>(12)</u>	<u>0-30cm.</u>	<u>(8) NGS</u>
			<u>30-40cm.</u>	<u>(4) NGS</u>
	<u>पौधरा</u>	<u>(50)</u>	<u>40-60cm.</u>	<u>(70) NGS</u>
			<u>70-90cm.</u>	<u>(40) NGS</u>

It is confirmed that Trees as detailed above have been to be damaged.

Name of Land owner..... पुर्वीण कुशाद Signature/ L.T.I.: पुर्वीण कुशाद

(Signature with seal)  
Tehsildar

For Power Grid Corporation of India Ltd.

4(19/15)

POWER GRID CORPORATION OF INDIA LIMITED, MEERUT  
LINE: ±800 KV CHAMPA-KURUKSHETRA TRANS. LINE

Tehsil-Mawana

Village- Paswada

Tree Compensation

UTTAR PRADESH

Sr. No.	Name & Father Name	Village	Distt.	Loc./ Section Name	Khasra/ Khatauni No.	Species	Age of Trees in Years	Girth	Nos. of Trees
1	BEER SINGH S/O SATPALM SINGH	PASWADA	MEERUT	107/0- 107/1	127	Jamun	15	90-120	10
						Sheesham		70-90	10
						Sheesham		110-120	7
						Sheesham		130-150	3
								20	
2	MUKESH KUMAR S/O SHAUDAN SINGH	PASWADA	MEERUT	107/0- 107/1	129, 131	Popular		40-60	15
						Popular		70-90	24
									39
3	TASWEER KAUR W/O RAM KISHAN	DABTHLA	MEERUT	107/0- 107/1	127	Popular		60-90	38
						Ukelyptus		40-60	20
									58
4	UDAY RAJ S/O BALDEVA	PASWADA	MEERUT	107/0- 107/1	7	Popular		40-60	30
						Popular		70-80	20
									50
5	PRAVEEN KUMAR S/O OMVEER SINGH	PASWADA	MEERUT	107/1	11	Ukelyptus		0-30	8
						Ukelyptus		60-90	4
						Popular		40-60	10
						Popular		70-90	40
									62
6	SAVITA W/O DUSHYANT KUMAR	PASWADA	MEERUT	107/1- 107/2	100	Popular		0-30	50
						Popular		40-60	30
						Popular		70-90	130
						Sheesham		120	1
						Sheesham		40	1
									212
7	DEEPCHAND S/O SINGHAR SINGH	PASWADA	MEERUT	107/2	49	Popular		0-30	160
						Popular		40-60	60
						Popular		70-90	49
									290
8	NETRAPAL S/O JAIPAL SINGH	PASWADA	MEERUT	107/2	50	Mango	8	90	4
9	NARVEER S/O BRAHM SINGH	PASWADA	MEERUT	107/3- 107/4	331	Popular		60-90	20
						Ukelyptus		160	1
									21
10	SUKARAM PAL S/O TEEKAM SINGH	PASWADA	MEERUT	107/4	320	Popular		60-90	4
						Sheesham		130	1
									5
11	ANAND SWAROOP S/O KHEMCHAND	PASWADA	MEERUT	107/4- 107/5	309	Sheesham		70-90	3
						Sheesham		100-120	3
									6

महोदय, कृपया 1 से 11 तक ग्राम पंचायत की कार्यवाही  
अनुमति स्वामी है।

*(Signature)*  
29/11/16  
TEKHPAL

*(Signature)*  
रविशंकर प्रदीप सिंह  
प्रमोदी राजस्व निरीक्षक  
रा० नि० क्षेत्र-माछा (मेरठ)

*(Signature)*  
02.02.2016  
TEHSILDAR

तहसीलदार  
मवाना (मेरठ)

*(Signature)*  
POWERGRID REPRESENTATIVE

*(Signature)*  
Rishy

आर. आर. सिंह / R. R. SINGH  
प्रबन्धक (परिपत्र) / MANAGER (TL)  
उत्तर प्रदेश विद्युत निगम

**Tree Compensation Bill No.-13**  
**POWER GRID CORPORATION OF INDIA LIMITED, MEERUT**  
**LINE: ±800 KV CHAMPA-KURUKSHETRA TRANS. LINE**  
**Tree Compensation UTTER PRADESH**

Sr. No.	Name & Father Name	Village	Distt.	Loc./ Section Name	Khasra/ Khatauni No.	Species	Age of Trees in Years	Girth	Nos. of Trees	Rate	Amount	Total Amount	Class No Date
1	BEER SINGH S/O SATPALM SINGH	PASWADA	MEERUT	107/0- 107/1	127	Jamun	15	90-120	10	11873	118730		22/9/16
						Sheesham		70-90	10	2085	20850		
						Sheesham		110-120	7	6135	42945		
2	MUKESH KUMAR S/O SHAUDAN SINGH	PASWADA	MEERUT	107/0- 107/1	129, 131	Popular		40-60	15	84	1260		035684
						Popular		70-90	24	552	13248		
						Popular		60-90	38	552	20976		
3	TASWEER KAUR W/O RAM KISHAN	DABTHLA	MEERUT	107/0- 107/1	127	Ukelyptus		40-60	20	225	4500		035615
						Popular		40-60	38	552	20976		
						Ukelyptus		60-90	20	225	4500		
4	UDAY RAU S/O BALDEVA	PASWADA	MEERUT	107/0- 107/1	7	Popular		40-60	30	84	2520		035623
						Popular		70-80	20	552	11040		
						Ukelyptus		0-30	8	23	184		
5	PRAVEEN KUMAR S/O OMVEER SINGH	PASWADA	MEERUT	107/1	11	Ukelyptus		0-30	4	825	3300		035589
						Popular		40-60	10	84	840		
						Popular		70-90	40	552	22080		
6	SAVITA W/O DUSHYANT KUMAR	PASWADA	MEERUT	107/1- 107/2	100	Popular		0-30	50	36	1800		035603
						Popular		40-60	30	84	2520		
						Popular		70-90	130	552	71760		
						Sheesham		120	1	6135	6135		
						Sheesham		40	1	198	198		
								212			82413	82413	

*Bm*

*King 01/3/16*

Cash Management Services - Payment:



MAIL TO PRAVEEN KUMAR S/O OMVEER SINGH MEERUT	BY ORDER OF POWERGRID CORPORATION OF INDIA LTD KATWARIA SHARAL NEW DELHI
---	---

Dear Sir/ Madam,  
herewith our Cheque towards the settlement of your payment as per the following details.

We enclose

Cheque Number	:	035584
Cheque Date	:	22/03/2016
Cheque Amount	:	*****26,404.00
Favouring	:	PRAVEEN KUMAR S/O OMVEER SINGH
Reference No.	:	110124002079102015
Payment Details	:	

Customer Reference

FTC0322821081

भुगतान प्राप्ति की रसीद

बिल संख्या 13 क्रम संख्या 5 कार्य TC

टावर संख्या 107/1

₹ 800 के. वी. चम्पा- कुरुक्षेत्र एच. वी. डी. सी. लाइन के निर्माण कार्य के समय हुई पेड़ों की क्षति के भुगतान का चेक संख्या 035584 दिनांक 22.03.2016 एच.डी.एफ.सी. बैंक, मेरठ रुपये 26404/- Rupees Twenty Six Thousand Four Hundred Four Only पावरग्रिड कार्पोरेशन ऑफ इण्डिया लिमिटेड, मेरठ से सधन्यवाद प्राप्त किया।

हस्ताक्षर/अंगूठा निशान

भूस्वामी का नाम- PRAVEEN KUMAR S/O OMVEER SINGH  
ग्राम का नाम- PASWADA  
जिला- MEERUT

# पावर ग्रिड कारपोरेशन ऑफ इण्डिया लिमिटेड



8006543273 (भारत सरकार का उद्यम)

765 के.वी. डबल सर्किट औरई-अलीगढ़ पारेषण लाईन निर्माण

पावरग्रिड

304, डी ब्लॉक, प्रीन पाठ कालोनी, एटा बार्डपास, ब्यार्ली रोड, अलीगढ़ 202 001

बुक नं० 129

नोटिस / मुआवजा प्रमाण पत्र

दिनांक 19/04/18

क्रमांक संख्या 48

(विद्युत अधिनियम 2003 (भाग 88 एवं 164-भारतीय तार अधिनियम 1885 के भाग-3 के पठित) विद्युत नियमावली 1956) - -

विषय : 765 के.वी. D/C औरई-अलीगढ़ पारेषण लाईन निर्माण कार्य में क्षतिग्रस्त फसल/वृक्ष के मुआवजा के सम्बन्ध में

महोदय/महोदया,

श्री SITPA KUMAR पुत्र श्री RAMSHANKAR ग्राम JALMARI

रू KHAR तहसील KHAR जिला ALWAR

भारत विद्युत अधिनियम 2003 की धारा 164 के अन्तर्गत पारित आदेश दिनांक 24-12-2003 जो भारतीय राजपत्र में प्रकाशित है विद्युत मंत्रालय (भारत सरकार) ने पावर ग्रिड कारपोरेशन ऑफ इण्डिया लिमिटेड (भारत सरकार का उद्यम) का अन्तरराज्यी पारेषण प्रणाली के जरिये विद्युत लाईन स्थापित अथवा विद्युत संचरण के लिए स्थापित अनुरक्षित की जाने वाली विद्युत लाईन अथवा दूरभाष का यंत्रतार द्वारा संसूचना के प्रयोजनार्थ, जो कार्यों के उचित समन्वय हेतु आवश्यक हों, के संबंध में भारतीय तार अधिनियम 1885 के भाग-3 के अंतर्गत "तार प्राधिकारी" हेतु निहित शक्तियों के प्रयोग करने के लिये प्राधिकृत किया है।

इस पत्र के माध्यम से आपको सूचना दी जाती है कि पावर ग्रिड कारपोरेशन ऑफ इण्डिया लिमिटेड (भारत सरकार का उद्यम) 765 के.वी. D/C औरई-अलीगढ़ पारेषण लाईन का निर्माण कर रहा है।

## क्षतिग्रस्त फसल/वृक्ष का विवरण

क्र.सं.	लोकेशन नं०	वृक्ष/फसल का विवरण	ऊँचाई का क्ष०/ वृक्ष की मोटाई का क्ष०	खसरा/सं०	अन्य विवरण
1	24/0	CABHEDA (1)	120 cm	2649	CORRIDOR TREES
	24/0	PAPADI (1)	80 cm		
		BAKARA (1)	70 cm		

(मालिक द्वारा भरने हेतु)

मैं/हम प्रमाणित करता हूँ/करते हैं कि -

- (1) नुकसान हुये पेड़ / फसल का केवल मैं/हम ही मालिक हूँ/हैं यदि अन्य कोई इन पर अपना स्वामित्व प्रमाणित करता है तो उसके लिए मैं/हम स्वयं उत्तरदायी होंगे।
- (2) उपरोक्त दी सूचना मान्य है।
- (3)  का निशान लगे पेड़/फसल काट लिए गये तथा हटा लिये गये है।

अतिलिपि-

मालिक

नाम सहित हस्ताक्षर

पावर ग्रिड प्रतिनिधि

नाम सहित हस्ताक्षर

लेखपाल/तहसीलदार

नाम सहित हस्ताक्षर

1. सम्बन्धित कार्तकार

2. तहसीलदार-तहसील \_\_\_\_\_ आवश्यक कार्यवाही हेतु।

3. जिलाधिकारी / उपजिलाधिकारी \_\_\_\_\_ विनम्र सूचनार्थ।

आपसे अनुरोध है कि ऊपर लिखित मालिक के रिकार्ड से स्वामित्व का सत्यापन करते हुये क्षतिग्रस्त फसल/वृक्ष की हुई हानि का मुल्यांकन करने की शीघ्र कृपा करें।

8006543273



### Annexure -3: Minutes of Meeting (MoM)

दिनांक 28.4.2012 को पावर ग्रिड कार्पोरेशन आफ इंडिया लिमिटेड एवं ग्राम तागा के ग्रामवासियों द्वारा भूमि अर्जन के संबंध में मुआवजा दर निर्धारण के संबंध में बैठक की कार्यवाही विवरण

दिनांक 28.4.2012 को चाम्पा 765 के.वी.सबस्टेशन एवं एच.वी.डी.सी.की निजी जमीन अधिग्रहण हेतु वन विभाग अकलतरा जिला-जांजगीर-चाम्पा के विश्राम गृह में माननीय विधायक श्री सौरभ सिंह विधान सभा क्षेत्र अकलतरा की मौजूदगी में ग्राम तागा के भू-विस्थापितों के साथ बैठक आयोजित की गई बैठक में निम्नलिखित अधिकारी/कर्मचारी एवं ग्रामीणजन उपस्थित थे :-

स्थानीय प्रशासन	पावर ग्रिड कार्पोरेशन	प्रभावित काश्तकार
1.श्री एम0एल0सिरदार अपर कलेक्टर जांजगीर-चाम्पा	1.श्री ए0के0हान्डा उपमहाप्रबंधक नागपुर	संलग्न सूची अनुसार
2.श्री एस0के0तिवारी अनुविभागीय अधिकारी राजस्व जांजगीर	2.श्री नवीन श्रीवास्तव उपमहाप्रबंधक विलासपुर	
3.श्री आर0एवका अनुविभागीय अधिकारी राजस्व पामगढ़	3.श्री एस0के0श्रीवास्तव मुख्य प्रबंधक नागपुर	
	4.श्री मधुसुदनराव मुख्य प्रबंधक वित्त नागपुर	
	5.श्री रजनीश तिवारी मुख्य प्रबंधक विलासपुर	

- सर्व प्रथम भू-विस्थापितों द्वारा भूमि के एवज में 20.00 लाख रुपये प्रति एकड़ मुआवजा राशि तथा प्रत्येक प्रभावित परिवार के एक सदस्य को पावर ग्रिड में नौकरी देने की मांग की गई।
- पावर ग्रिड द्वारा स्पष्ट किया गया कि उनकी नीति के अनुसार विस्थापितों को नौकरी देने का कोई प्रावधान नहीं है। तथा प्रभावित काश्तकारों की मांग को देखते हुए पावर ग्रिड द्वारा शासन के सिंचित भूमि के निर्धारित मुआवजा राशि 10.00 प्रति एकड़ पर 40 प्रतिशत प्रति एकड़ अतिरिक्त दर से मुआवजा देने का प्रस्ताव रखा गया।

*[Signature]*  
28/4/12

*[Signature]*  
अनुविभागीय अधिकारी  
जांजगीर-चाम्पा

*[Signature]*  
28/4/12

*[Signature]*  
28/4/12

*[Signature]*  
अनुविभागीय अधिकारी (रा.)  
पामगढ़



3. भू-अर्जन से प्रभावित परिवार के एक सदस्य को अथवा नामित व्यक्ति को नौकरी देने की पुनः माँग की गई।

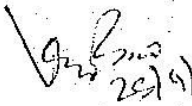
4. पॉवर ग्रिड द्वारा पुनः स्पष्ट किया गया पॉवर ग्रिड की नीतियों तथा कार्य के स्वरूप के अनुसार नौकरी देना संभव नहीं है अतः इस परिस्थितियों में प्रभावित काश्तकारों की माँग को देखते हुए नौकरी के एवज में एक मुश्त अंतिम मुआवजा के स्वरूप में 3.00 लाख रुपये प्रति एकड़ की दर से अतिरिक्त राशि मुआवजा के रूप में प्रदान की जा सकती है।

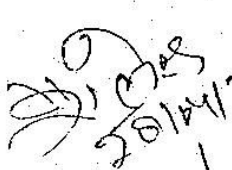
5. इसके बाद भू-अर्जन से प्रभावित काश्तकारों द्वारा विचार विमर्श करने के बाद यह बताया गया कि भूमि की मुआवजा राशि 10.00 लाख के अतिरिक्त 4.00 लाख प्रति एकड़ (कुल 14.00 लाख प्रति एकड़) की दर पर सहमति व्यक्त की गई परन्तु नौकरी हेतु अगर पॉवर ग्रिड नौकरी की व्यवस्था नहीं कर सकता की स्थिति में अन्य पॉवर प्लांट में नौकरी दिलायी जाने की माँग की गई।

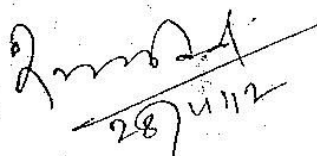
इस पर पॉवर ग्रिड कार्पोरेशन द्वारा स्पष्ट किया गया कि नौकरी दिलाने पर कोई आश्वासन नहीं दिया जा सकता। अतः पॉवर ग्रिड द्वारा कुल राशि 14.00 लाख रुपये के अतिरिक्त 3.00 लाख रुपये नौकरी के एवज में एक मुश्त अंतिम मुआवजे के रूप में स्वीकार किया जावे।

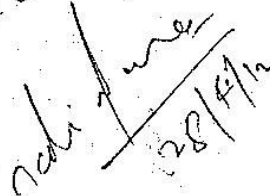
चर्चा पश्चात बैठक समाप्त की गई।

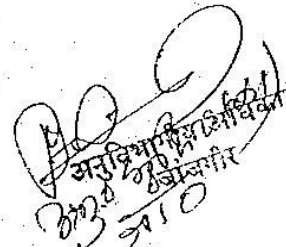
  
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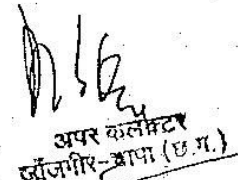
  
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28/4/12

  
अनुविभागीय अधिकारी  
28/4/12

  
अनुविभागीय अधिकारी (रा.)  
पापगढ

  
अपर कलेक्टर  
जौजपीर-बापा (उ.प.)

28/4/12

ML 26/

कार्यालय कलेक्टर ( भू-अर्जन शाखा )जिला - जंजगीर-चांपा( छ.ग.)

!! जापन !!

क्रमांक क/ भू-अर्जन/2013 779

जांजगीर दिनांक 31/01/2013

प्रति,

✓ महाप्रबंधक,

पावरग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड,

जांजगीर-चांपा

विषय:- 765/400 के.व्ही. सब स्टेशन हेतु ग्राम- तागा में निजि भूमि अधिग्रहण हेतु ली गयी बैठक दिनांक 26/12/2012 के संबंध में ।

विषयांतर्गत लेख है कि छ.ग. शासन ऊर्जा विभाग मंत्रालय रायपुर के पत्र क्रमांक 834/13/ऊ.वि./पी.जी.सी.एल./2011 रायपुर दिनांक 07.04.2011 के कार्यवाही विवरण में दिए गए निर्देशानुसार ग्राम- तागा एवं चोरभट्टी के 765/400 के.व्ही. सब स्टेशन के लिए निजि भूमि अर्जन हेतु अतिरिक्त मुआवजा निर्धारण के संबंध में दि. 28.04.2012 को हुई बैठक में पावरग्रिड व शासन द्वारा प्रस्तावित नौकरी के एवज में रु. 3.00 लाख प्रति एकड़ के मुआवजे पर काश्तकारों ने पूर्ण सहमती नहीं दी थी तथा इस पर काश्तकारों ने अवार्ड नोटिस न लेते हुए असहमति व्यक्त की। अतः ग्राम-तागा पंचायत भवन में दिनांक 26.12.2012 को भूमि अवार्ड के पश्चात चेक वितरण हेतु अनुविभागीय अधिकारी(रा.),जांजगीर, सरपंच ग्राम-तागा तथा अन्य ग्रामवासियों के साथ ली गयी बैठक में काश्तकारों द्वारा नौकरी के एवज में रु. 6.00 लाख प्रति एकड़ मुआवजा मिलने पर अपनी सहमति दी है, बैठक की कार्यवाही विवरण संलग्न है। कार्यवाही विवरण के अनुसार नौकरी के एवज में बढ़ाई गयी मुआवजा राशि वितरण की व्यवस्था करें।

(कलेक्टर द्वारा स्वीकृत)

सहपत्र:- उपरोक्तानुसार



डिप्टी-कलेक्टर

हेतु/- कलेक्टर

जांजगीर-चांपा छ.ग.

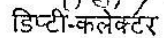
पृष्ठांकन क्रमांक क/ भू-अर्जन/2013

जांजगीर दिनांक 31/01/2013

प्रतिलिपि :-

सरपंच ग्राम पंचायत तागा तहसील-अकलतरा जिला-जांजगीर-चांपा की ओर ग्राम-तागा के निजि भूमि अर्जन हेतु ली गयी बैठक की कार्यवाही विवरण संलग्न कर सूचनार्थ अग्रेषित।

तहसीलदार अकलतरा : सूचनार्थ ।



डिप्टी-कलेक्टर

हेतु/- कलेक्टर

जांजगीर-चांपा छ.ग.

कार्यालय अनुविभागीय अधिकारी (राजस्व) जांजगीर, जिला-जांजगीर-चांपा (छ.ग.)

// जापन //

क्रमांक/3213/अ.वि.अ/भू-अर्जन/2013

जांजगीर, दिनांक 02/01/2013

प्रति,

कलेक्टर,

भू-अर्जन शाखा

जिला : जांजगीर - चांपा (छ.ग.)

जांजगीर-चांपा (छ.ग.)  
- 2 JAN

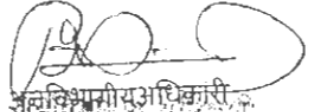
विषय:- ग्राम तागा प.ह.नं.18 तहसील-अकलतरा जिला -जांजगीर -चांपा (छ.ग.) के भू-अर्जन प्रकरण क्रमांक19/अ82/2010-2011 पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड 765/400 के. वी. उपकेंद्र निर्माण की अतिरिक्त मुआवजा राशि के निर्धारण के संबंध में।

विषयांतर्गत लेख है कि ग्राम तागा प.ह.नं. 18 तह -अकलतरा जिला -जांजगीर -चांपा (छ.ग.) के अंतर्गत भू-अर्जन प्रकरण क्रमांक 19/अ82/2010-2011 की अर्जित निजी भूमि की अवाई आयुक्त बिलासपुर संभाग बिलासपुर द्वारा अनुमोदित किया गया है।

भू अर्जन प्रकरण के मुआवजा राशि के चेक का वितरण 26.12.12 से प्रारम्भ किया गया । इस संबंध में ज्ञात हो कि चेक वितरण के पूर्व ग्राम तागा के सरपंच कार्यालय मे ग्राम वासियों के साथ चर्चा मे उपरोक्त विषय पर ग्रामवासियों को राजी कर पूर्व मे निर्धारित अतिरिक्त मुआवजा राशि 7.00 लाख प्रति एकड़ को बढ़ाकर 10 लाख रुपये कि मांग ग्राम वासियो द्वारा कि गयी जिसे मान्य कर कार्यवाही विवरण आगे कि कार्यवाही तथा पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड को निर्देशित करने हेतु आपके कार्यालय मे प्रस्तुत है।

सहपत्र : कार्यवाही विवरण

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21.1.13

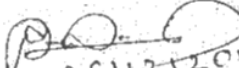
  
अनुविभागीय अधिकारी  
(राजस्व) जांजगीर  
जिला-जांजगीर-चांपा (छ.ग.)


दिनांक 26.12.2012 को ग्राम तागा के निजी भूमि काश्तकारों तथा अनुविभागीय अधिकारी जांजगीर, एवं पावरग्रिड कारपोरेशन ऑफ इंडिया लि. के बीच मुआवजा राशी वितरण हेतु हुई चर्चा का विवरण:

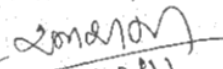
दिनांक 26.12.2012 को चांपा 765/400 के.व्ही. उपकेंद्र तथा एच.वी.डी.सी. के लिए अधिग्रहित की जा रही निजी भूमि के मुआवजा राशि के चेक वितरण हेतु ग्राम तागा के सरपंच कार्यालय में अनुविभागीय अधिकारी जांजगीर तथा अन्य अधिकारियों की प्रभावित काश्तकारों के साथ चर्चा हुई। इस संदर्भ में ज्ञात हो कि कमिश्नर कार्यालय बिलासपुर द्वारा दिनांक 30.11.2012 को ग्राम तागा की 82.36 एकड़ निजी भूमि के अनिवार्य अधिग्रहण का अवार्ड पारित किया गया। इसके बाद धारा 12(2) की सूचना ग्रामवासियों को अनुविभागीय अधिकारी जांजगीर तथा तहसीलदार कार्यालय अकलतरा द्वारा भेजी गयी, किन्तु ग्रामवासियों द्वारा इस सूचना को उनकी नौकरी की मांग पूरी होने तक लेने से इंकार किया गया। इस चर्चा में निम्नलिखित अधिकारी/ कर्मचारी उपस्थित थे :


स्थानीय प्रशासन	पावरग्रिड कारपोरेशन	प्रभावित काश्तकार
1. श्री एस. के. तिवारी, अनुविभागीय अधिकारी जांजगीर	श्री आर. एस. गुप्ता, अपर महा-प्रबन्धक	संलग्न सूची अनुसार
2. श्री चंद्रा, तहसीलदार अकलतरा	श्री सी. बी. टोकेकर, उप-प्रबन्धक	
3. श्री के.आर. कोशले थाना इंचार्ज तागा क्षेत्र	श्री आयुष अग्रवाल, अभियंता	
4. सरपंच ग्राम पंचायत तागा		
5. राजस्व निरीक्षक जांजगीर		
6. पटवारी हल्का ग्राम तागा		

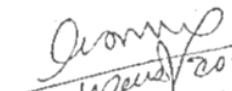
1. आज दिनांक 26.12.2012 को मुआवजा राशि के चेक वितरण हेतु अनुविभागीय अधिकारी जांजगीर के समक्ष सभी ग्रामवासियों ने एक मत से अपनी नौकरी की मांग दोहराई तथा मांग पूरी होने तक चेक लेने से इंकार किया। निजी भूमि के काश्तकारों द्वारा दिनांक 28.04.2012 को अकलतरा में हुई बैठक का हवाला देते हुये नौकरी के एवज में दिये जा रहे 3 लाख रुपये प्रति एकड़ के लिए आमसहमति नहीं बन पाने की बात बार बार दोहराई गयी।

  
26/12/2012  
अनुविभागीय अधिकारी  
जांजगीर

  
R.S.  
26-12-12

  
26/12/12  
तहसीलदार  
अकलतरा (छ.आर.)  
अपर एस. गुप्ता / R.S. Gupta  
अपर महाप्रबन्धक / Addl. G.M.  
पावरग्रिड / POWERGRID  
जांजगीर-चांपा / Janjgir-Champa (C.G.)

  
सरपंच  
ग्राम पंचायत तागा  
जिला जांजगीर-चांपा (छ.आर.)

  
26/12/12

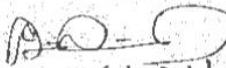
...2...

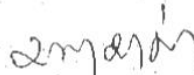
2. अनुविभागीय अधिकारी जांजगीर द्वारा सभी निजी भूमि के काश्तकारों को तरह-तरह से समझाने की कोशिश की गई तथा विस्तृत चर्चा के बाद अधिकांश निजी भूमि काश्तकारों द्वारा नौकरी के एवज में दी जा रही 3 लाख प्रति एकड़ की राशि को बढ़ाकर 6 लाख रुपये प्रति एकड़ करने का प्रस्ताव रखा। यह प्रस्ताव स्वीकार होने पर काश्तकारों द्वारा नौकरी की मांग निरस्त करते हुए मुआवजा राशि के चेक को लेने की बात की।

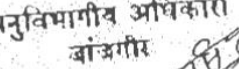
3. विषय की गंभीरता को समझते हुए इस प्रस्ताव को अनुविभागीय अधिकारी जांजगीर द्वारा अपनी सहमति देते हुए पावरग्रिड के अधिकारियों को दिनांक 28.04.2012 में निर्धारित 04 लाख रुपये प्रति एकड़ अतिरिक्त भू-मुआवजा राशि को यथावत रखते हुए रुपये 3 लाख प्रति एकड़ नौकरी के एवज में एक मुश्त भुगतान को बढ़ाकर 6 लाख रुपये प्रति एकड़ (कुल 10 लाख रुपये प्रति एकड़) भुगतान करने हेतु कहा।


4. इस विषय पर पावरग्रिड अधिकारियों द्वारा वर्तमान में स्वीकृत 07 लाख रुपये प्रति एकड़ के अतिरिक्त मुआवजा राशि का चेक वितरण के लिए उपलब्ध होने की जानकारी दी तथा आज प्रस्तावित अतिरिक्त 03 लाख रुपये प्रति एकड़ की मुआवजा राशि के वितरण में लगभग दो माह का समय लगने की बात कही। साथ ही कार्य शुरू करने में हो रहे विलंब को देखते हुये कार्य को तत्काल शुरुआत करने में निजी भूमि के काश्तकारों द्वारा किसी प्रकार की आपत्ति या असहमति नहीं दर्शाने हेतु आग्रह किया।

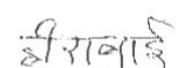
5. बैठक में उपस्थित अधिकांश काश्तकारों द्वारा उपरोक्त प्रस्ताव पर अपनी पूर्ण सहमति देते हुए मुआवजा राशि का चेक लेने में अपनी स्वीकृति दी। इसके बाद चेक वितरण की कार्यवाही प्रारम्भ की गई।

  
26/12/2012  
अनुविभागीय अधिकारी  
जांजगीर

  
26/12/12  
आर. एस. गुप्ता / R.S. Gupta  
अपर महाप्रबंधक / Addl. G.M.  
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R.S.  
26/12/12  
अपर महाप्रबंधक (अ.प्र.)  
जांजगीर-चांपा (C.G.)

  
R.S.  
26/12/2012

  
R.S.  
अपर महाप्रबंधक (अ.प्र.)  
जिला जांजगीर-चांपा (C.G.)

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