



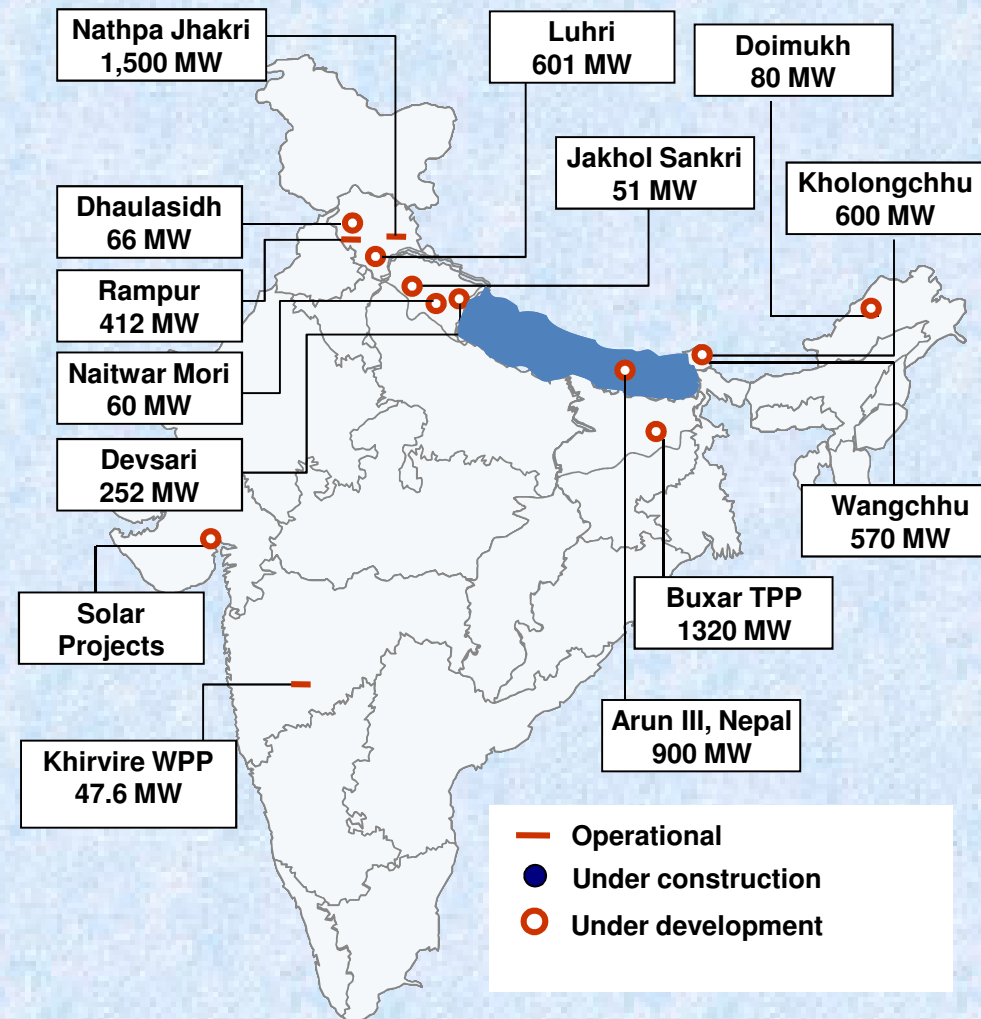
# SJVN Limited

Investor Meet Presentation

JUNE 2015

# SJVN – A Snapshot

- SJVN was incorporated as a JV between GoI and the GoHP with equity ratio 75:25.
- SJVN became a Schedule A PSU; designated as Mini-Ratna Category-I in May, 2008.
- Company got Listed on NSE and BSE in the month of May, 2010 consequent to disinvestment of 10.03% share in the company by GoI through a Public Offer.
- Presently, the Company has 3 operational Projects:-
  1. Nathpa Jhakri Hydro Power Station – 1500 MW
  2. Rampur Hydro Electric Project - 412 MW
  3. Khirvire wind project - 47.6 MW
- Another 14 Projects having combined capacity of 4500 MW are in various stages of development.
- Lately, the Company has diversified into Thermal, Solar and Wind Power and envisions to develop itself into a fully diversified Power Sector Company.
- Stable revenue stream through long-term PPAs.
- Reputed for good Corporate Governance practices and Environmental and Social responsibility



# Policy Thrust

## ■ Revised CERC Regulations

- The new tariff regulations issued by CERC (2009-14) comprises a number of elements including the concept of annual fixed charges, incentives and deviation settlement charges
- Guaranteed rate of return on equity of 16.5% with additional incentives for higher efficiencies

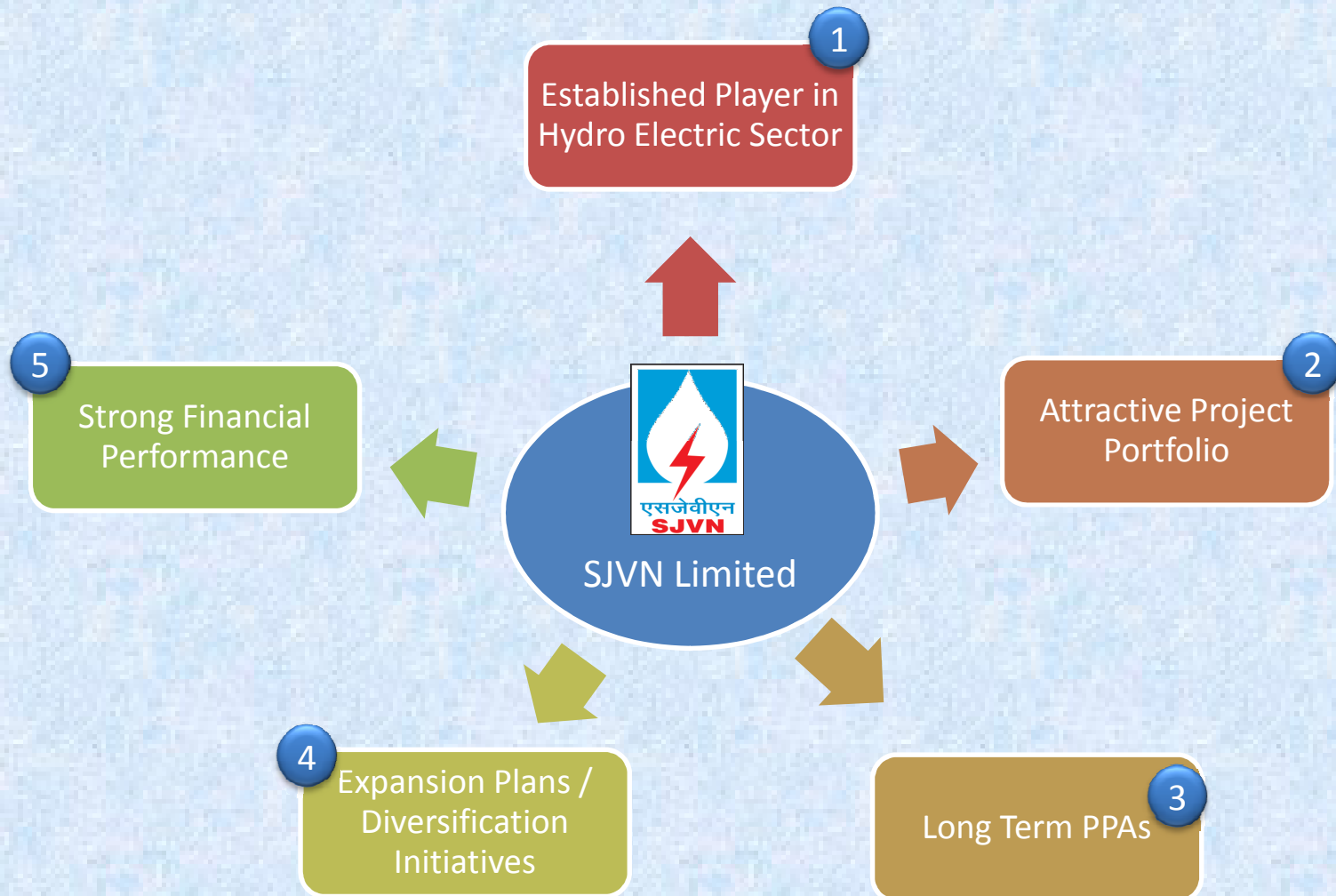
## ■ Provision for Mega Power Projects

- Threshold limit to obtain hydro mega power project status is 500 MW for all states except Jammu & Kashmir, Sikkim and the North Eastern States, where it is 350 MW
- Threshold limit to obtain thermal mega power project status is 1000 MW for all states except Jammu & Kashmir, Sikkim and the North Eastern States, where it is 700 MW
- Ten year income tax holiday
- Duty-free import of capital equipment

## ■ Import Policy for Enhancing Hydropower Utilization

- Utilize the hydro power potential of Bhutan, Nepal and Myanmar of about 140,000 MW
- Provide financial and technological assistance to these countries

# Investment Highlights



# Performance Highlights (FY: 2014-15)

- Gross Generation (MU)

MOU Target (Excellent)	Achievement	Excess of Target
7920	8130	210

- Annual Plant Availability Factor (%)

MOU Target (Excellent)	Achievement	Excess of Target
92.5%	105.5%	13

# MOU RATINGS

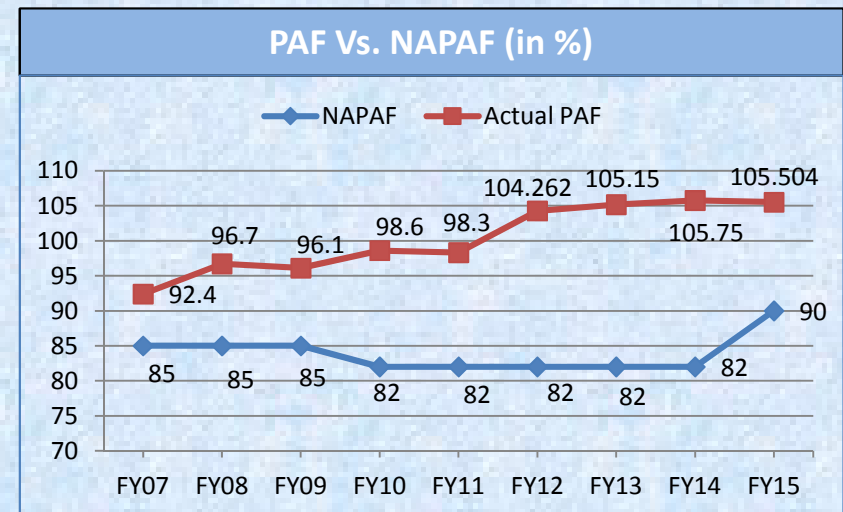
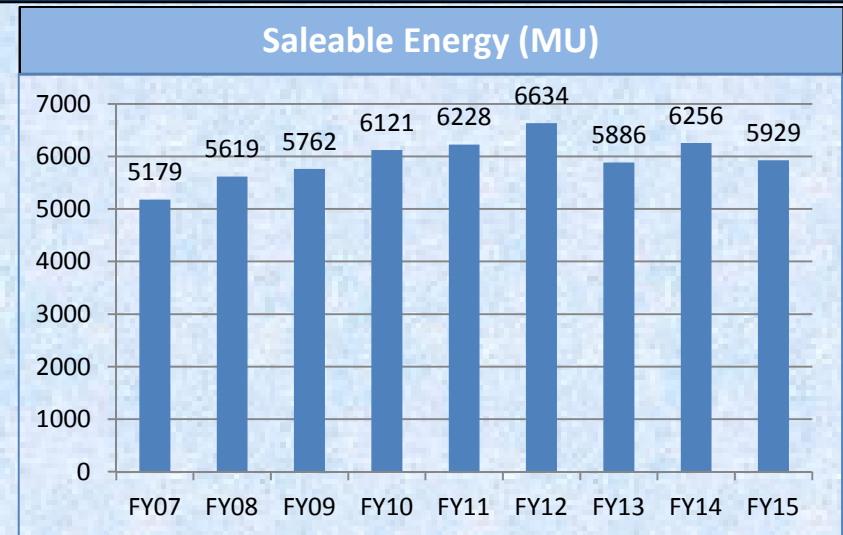
- SJVN signs MOU with Min. of Power, Govt. of India before start of every Financial Year.
- The targets are a mix of financial and non-financial parameters
- The performance of the company is measured against the targets defined in the MOU on a 5 point scale ranging from Excellent to Poor.
- MOU Rating for last 3 Years is as below:

FY	Rating
2011-12	Excellent
2012-13	Excellent
2013-14	Excellent

# Established Player in Hydro Electric Sector

## NJHPS [1500 (6X250) MW] – Strong Operating History

- A 1,500 MW (6 x 250 MW) run-of-the-river hydroelectric power station located on Sutlej river in the Himalayan region
- NJHPS has an annual design energy generation capacity of 6,612 MU in a 90% dependable year with 95 % machine availability.
- For FY 2015, the gross energy generation was 6838.125 MU as against the Design Energy of 6612 MU.
- NJHPS has consistently achieved a higher monthly PAF than the NAPAF set by CERC, thus qualified the performance-based incentives. Under the new tariff regime, the NAPAF has been set as 90% by the CERC.
- CERC, vide its order dated 20.06.2014, has provisionally approved the tariff for NJHPS for the period 2009-14 considering provisional capital cost of Rs. 8528.70 crore.



# Established Player in Hydro Electric Sector

## Rampur HPS [412 (6X68.67) MW]

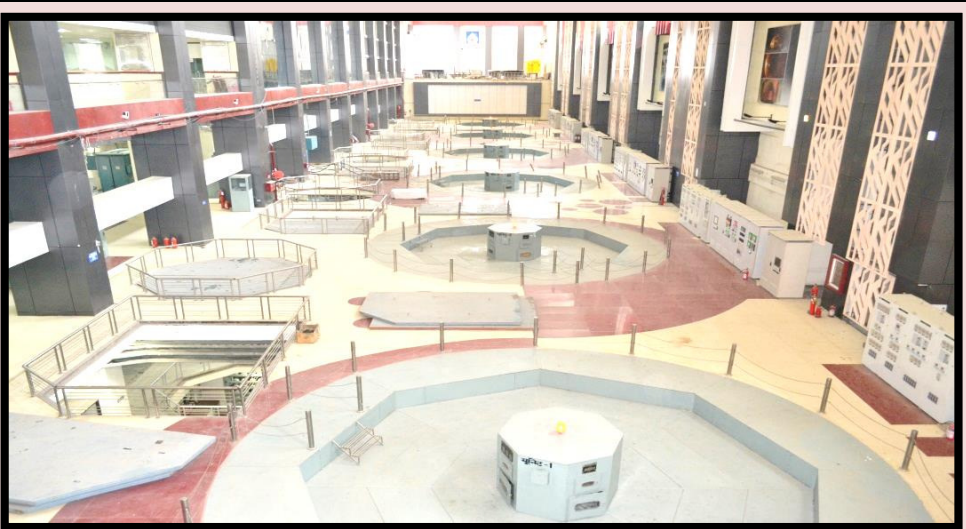
- The 412 MW Rampur Project is located downstream of the NJHPS on the Sutlej River, and is a tailrace arrangement which is expected to use the de-silted water discharged from the NJHPS
- Rampur HPS has declared under commercial Operation on 16.12.2014.
- Rampur HPS has an annual design energy generation capacity of 1878.08 MU in a 90% dependable year with 95 % machine availability.
- The gross energy generation of Rampur HPS was 1257.520 MU (as against the Annual Design Energy of 1417 MU as decided by CERC vide its tariff order for the year 2014-15.)
- Rampur HPS has achieved a higher actual PAF than the NAPAF set by CERC for the year 2014-15, thus qualifying for the performance-based incentives under the tariff regime. The NAPAF has been set as 82% by the CERC for the year 2014-15 & 2015-16 and achievement for 2014-15 was 95.485% .
- CERC, vide its order dated 27.01.2015, has provisionally determined the Capital cost of Rampur HPS at Rs.3109.60 crore.



# Rampur HPS in pictures



Outfall Gate



Machine Hall



Pot Head yard



Power House

**Six units of RHPS have been commissioned progressively till December, 2014 as per following details.**

Unit no.	Date of Synchronization/ Commissioning	COD
Unit # 1	19.03.2014	13.05.2014
Unit # 2	21.03.2014	13.05.2014
Unit # 5	29.03.2014	13.05.2014
Unit # 4	12.06.2014	18.06.2014
Unit #3	31.07.2014	08.08.2014
Unit # 6	04.12.2014	<b>16.12.2014</b>

- Total power generation from RHPS up to 31.03.2015 (FY 2014-15) is **1323 MU** including 71MU as Infirm Power.

# NJHPS & RHEP – Awards & Achievements

## ■ **Nathpa Jhakri Hydro Power Station**

- Awarded '**Silver Shield**' by MoP in the category of "Performance of Hydro Power Stations" for the year 2012-13.
- Awarded '**Bronze Shield**' by MoP in the category of "Performance of Hydro Power Stations" for the year 2011-12.
- Awarded "**Gold Shield**" by MoP in the category of "Performance of Hydro Power Stations" for the year 2010-11.

## ■ **Rampur Hydro Project**

- Unit-5 of Rampur HEP awarded "**Gold Shield**" by MoP in the category of "Early completion of Hydro Projects" for the year 2013-14.
- Unit-2 of Rampur HEP awarded "**Silver Shield**" by MoP in the category of "Early completion of Hydro Projects" for the year 2013-14.

# Projects Portfolio

## - 3 Khirvire Wind Power Project in Maharashtra - 47.6 MW

- Letter of Award (LoA) for the Khirvire Wind Power Project was issued to M/s Gamezha Wind Turbines Pvt Limited, Chennai on 19.10.2012. The Contract Agreement for the project was signed on 14.12.2012. Whole project was commissioned on 20.05.2014.
- Out of 56 WEGs, PPA for 53 commissioned WEGs (totaling 45.05 MW) has been signed with MSEDCL.

# Projects Portfolio

Projects under development / implementation	State / Country	Estimated Installed Capacity	Status
<b>Devsari HEP</b>	Uttarakhand	252 MW	<ul style="list-style-type: none"> <li>• <b>DPR</b> : TEC accorded by CEA on 07.08.12.</li> <li>• <b>Environment clearance</b> – EC recommended by EAC. EC clearance to be accorded after Stage – I forest clearance.</li> <li>• <b>Forest clearance</b>- FAC meeting held on 28.01.15, minutes issued on 03.03.15. Some clarification sought, has been submitted and case forwarded to MoEF, New Delhi on 23.04.15.</li> <li>• Land acquisition- New Act implemented w.e.f. 01.01.14. State/ Central Govt yet to notify the rules.</li> </ul>
<b>Naitwar Mori HEP</b>	Uttarakhand	60 MW	<ul style="list-style-type: none"> <li>• <b>DPR</b>: Concurrence from GoUK received in March 2010.</li> <li>• <b>Environment clearance</b> – EC recommended by EAC on 27-12-2011. . EC clearance to be accorded after Stage – I forest clearance.</li> <li>• <b>Forest Clearance</b> - Case forwarded to MoEF, GoI on 22.12.14, to be considered after final verdict of Supreme Court..</li> <li>• <b>Land Acquisition</b> - Possession of land has been taken and mutation of land also done.</li> </ul>
<b>Jakhol Sankri HEP</b>	Uttarakhand	51 MW	<ul style="list-style-type: none"> <li>• <b>Revised DPR</b> submitted to Uttarakhand Govt on 29.12.11 for TEC, under approval by GoUK. DPR may undergo revision on account of revision of Environmental flows.</li> <li>• Submission of revised application of ToR for EIA/EMP is in process.</li> <li>• Forest clearance- Formalities being carried out for online submission of case</li> </ul>

# Projects Portfolio

Projects under development / implementation	State / Country	Estimated Installed Capacity	Status
Luhri HEP	HP	Under revision	<ul style="list-style-type: none"> <li>Examination of DPR was under progress at CEA and 12 chapters had been cleared when CEA made observations to revise Power House/ Surge shaft locations or review to multi-stage development. GoHP also expressed the same opinion vide their letter dated 11.03.15. The scheme dynamics of multi-stage development is being worked out at present. Consequently all clearances and processes shall have to be taken up afresh.</li> </ul>
Dhulasidh HEP	HP	66 MW	<ul style="list-style-type: none"> <li><b>DPR:</b> TEC accorded on 25.06.11.</li> <li><b>Environmental Clearance:</b> accorded on 21.02.13.</li> <li><b>1st stage Forest Clearance:</b> accorded on 06.03.12.</li> <li><b>Acquisition of Private Land:</b> Land acquisition for all 26 Villages in Hamirpur District lapsed on 10.09.14 and for Kangra District in Nov,14 for want of notification of "Multiplier factor" by GoHP. Further Land Acquisition process for both Districts will proceed only after clarity on the procedure under the Act.</li> <li><b>Investment approval :</b> Revised PIB note submitted on 20.02.15. Observations raised by CEA on 25.03.15 are under examination.</li> </ul>

# Projects Portfolio

Projects under development / implementation	State / Country	Estimated Installed Capacity	Status
<b>Doimukh HEP</b>	Arunachal Pradesh	80MW	<ul style="list-style-type: none"> <li>• <b>MOA</b> between SJVN &amp; Govt of Arunachal Pradesh signed on 12.08.14.</li> <li>• <b>Topographical Survey:</b> In progress.</li> <li>• <b>EIA/ EMP Report:</b> ToR approved on 09.04.15 by MoEF.</li> <li>• <b>Geological investigations:</b> In Progress.</li> <li>• <b>G &amp; D site</b> established on 01.02.15.</li> </ul>
<b>Buxar Thermal Power Project</b>	Bihar	1320 MW	<ul style="list-style-type: none"> <li>• <b>MOU</b> between SJVN, Bihar State Power Holding Company Limited (BSPHCL) and Bihar Infrastructure Company (BPIC) was signed for implementation of Buxor Thermal Power Plant (BTPP) in Bihar on 17.01.13. SJVN took over Buxor Bijli Company Private Ltd. on 04.07.13, renamed it to SJVN Thermal Private Ltd on 17.10.13.</li> <li>• <b>Updation of DPR:</b> Work awarded to NTPC on 13.01.14. Site specific studies i.e. Seismic studies and Water Drawl study are in progress.</li> <li>• <b>Topographical Survey:</b> To resume on availability of land.</li> <li>• <b>Environment Clearance:</b> EIA/ EMP report to be updated. Baseline Survey in progress.</li> <li>• <b>PIB clearance for pre-construction work-</b> Minutes of meeting of PIB received on 07.04.15. PIB approval for infrastructure work received on 26<sup>th</sup> may 2015.</li> <li>• <b>Land acquisition:</b> Out of total 1048.69 acres of private land, approval of 1040.85 acre land received from Bihar Govt. Payment pending for want of PIB clearance from MOP.</li> </ul>

# Projects Portfolio

Projects under development / implementation	State / Country	Estimated Installed Capacity	Status
<b>Kholongchhu HEP</b>	Bhutan	600 MW	<ul style="list-style-type: none"> <li>The Share Holders Agreement for development of 600 MW KHEP between DGPC and SJVN signed on 30.09.14 at Thimpu. Formation of JV is under process.</li> <li><b>DPR</b> approved by CEA , Gol on 05.11.12 and by RGoB on 23.05.13.</li> <li><b>Environment clearance/ Forest clearance-</b> Environment Clearance obtained from NEC, RGoB on 21.07.14. Transfer of Forest land to be done after signing of JV.</li> </ul>
<b>Wangchhu HEP</b>	Bhutan	570 MW	<ul style="list-style-type: none"> <li>Inter Govt Agreement between Royal Govt of Bhutan( RGoB) and Gol signed on 22.04.14 for implementation of Project.</li> <li><b>DPR:</b> Vetted by CEA on 28.01.14 and submitted to RGoB on 13.05.14. DPR approval from Cabinet of RGoB awaited.</li> <li><b>PIB note</b> submitted to MoP on 24.02.15. In process.</li> <li><b>Environment Clearance:</b> Final EIA/ EMP report will be cleared by RGoB after approval of DPR.</li> <li><b>Forest Clearance:</b> Forest clearance for project components except roads and mining area obtained on 24.09.14. Transfer of Forest land is subject to signing of JV.</li> </ul>



# Projects Portfolio

Projects under development / implementation	State / Country	Estimated Installed Capacity	Status
Arun-3 HEP	Nepal	900 MW	<ul style="list-style-type: none"> <li>• <b>PDA</b> signed with IBN, GoN on 25.11.14.</li> <li>• <b>DPR:</b> TEA accorded by CEA on 09.06.14.</li> <li>• <b>EIA/ EMP:</b> EIA report submitted to the Investment Board Nepal on 20.03.15 and Ministry of Science, Technology &amp; Environment , GoN on 27.03.15 which is under approval.</li> <li>• <b>Project Roads/ Bridges-</b> Being taken up with GoN for execution.</li> <li>• <b>Project land-</b> As per PDA, priority land to be transferred within 6 months.</li> <li>• <b>Transmission Line-</b> DPR cleared by CEA .</li> <li>• <b>PIB clearance:</b> PIB Note submitted to MoP on 31.03.15 for a total cost of Rs 7096 Crore that includes Generation &amp; Transmission line projects.</li> </ul>

# Transmission Business

- Cross Border Power Transmission Co. Ltd
  - For exchange of electricity between Nepal and India, a 400 kV D/C transmission line of approximately 145 km in length, running from Dhalkebar (in Nepal) to Muzaffarpur (in India), to be initially charged at 220 kV, and associated bay extension work at Muzaffarpur and Dhalkebar substations, hereinafter referred to as Transmission Line Project (TLP) shall be implemented under JV among IL&FS, PGCIL.SJVN & NEA..
  - Equity pattern is as given below:

IL&FS	38%
PGCIL	26%
SJVN	26%
NEA	10%
  - A dedicated Arun-III-Dhalkebar- Muzaffarpur 400KV D/C Transmission Line , total length-310km has also been planned to evacuate the power from Arun-III HEP to be executed by SJVN.

# Project Advisory & Consultancy

- SJVN has unique distinction of implementing the hydro projects of any magnitude from concept to commissioning in particular, in the fragile Himalayan Geology.
- The experience of constructing gigantic 1500 MW NJHPS project has given an edge to the SJVN's expertise in designing any type of projects which involve tunnels stabilization of soil and rock, diversion of rivers, stabilizing the rock mass using cable anchors, construction of shafts, large underground caverns etc.
- To take leverage of this expertise SJVN has started consultancy services for all those who are in need of expertise services in the above fields. SJVN has rendered consultancy services to KRCL for design works of tunnels, tunnel portals, slope stabilization of portals and station yards, and other specific problems at different KRCL sites.
- SJVN is also acting as consultant for HPPWD for construction of Thissar-Killar-Chamunda Traffic Tunnel in Himachal Pradesh.
- The HVOF (High Velocity Oxy Fuel) coating facility established and successfully operated at 1500 MW NJHPS has been widely appreciated in the Hydro Power Sector. SJVN endeavors that all projects/organizations facing similar silt erosion problems could benefit from by the experience and expertise gained by the Company.

# Diversification -Alternative Energy

- SJVN has diversified into various alternative energy projects, such as Wind Power and Solar Energy Projects.
- After achieving success in hydro and wind power development, SJVN is now also venturing into the solar energy field with an initial capacity addition of 5 MW in Charanka solar park, Gujrat to promote and develop renewable sources of energy in the country. In pursuit of above mission SJVN has already started surveying the various potential locations in India where the wind and solar energy can be exploited economically.

# Long Term PPAs for NJHPS

- For the regulation period 2009-14 the CERC allowed RoE for NJHPS as 15.5% from April 1<sup>st</sup>, 2009 to December 31<sup>st</sup>, 2012 and 16.5% from January 1<sup>st</sup>, 2013 to March 31<sup>st</sup>, 2014.
- Under the new tariff regime for the period 2014-19 the guaranteed RoE is 16.5% from April 1<sup>st</sup>, 2014 to March 31<sup>st</sup>, 2019.

## List of PPAs entered into -

Party	State	Commence ment Year	Duration (years)	Allocation (%) <sup>2</sup>	MW's
Punjab State Electricity Board	Punjab	Oct-02	35	10.13	152
Haryana Vidyut Prasaran Nigam Limited	Haryana	Jan-03	35	4.27	64
Chandigarh Administration, Engineering Dept.	Chandigarh	Dec-02	35	0.53	8
Government of Himachal Pradesh	HP	Oct-05	35	36.47	547
Himachal Pradesh State Electricity Board	HP	Mar-03	40		
Delhi Transco Limited	Delhi	Mar-03	35	9.47	142
Power Development Department of J&K	J&K	May -04	5	7.00	105
		May -09	5		
		May -14	5		
Rajasthan Rajya Vidyut Prasaran Nigam Limited	Rajasthan	Feb-03	35	7.47	112
Uttar Pradesh Power Corporation	UP	May 04	5	14.73	221
		May-09	30		
Uttarakhand Power Corporation Limited	Uttarakhand	Dec-05	35	-	-
Unallocated				9.93	149

# Long Term PPAs for RHPS

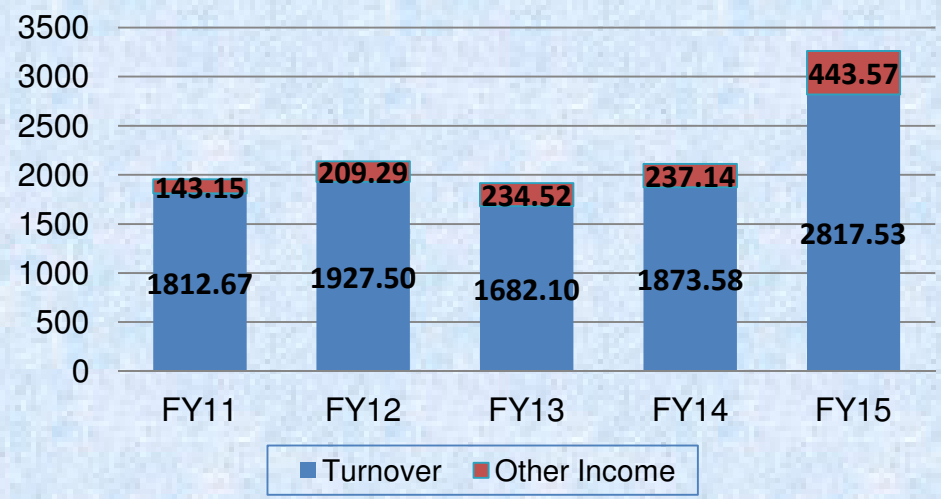
- Under the new tariff regime the guaranteed RoE is 16.5% from April 1<sup>st</sup>, 2014 to March 31<sup>st</sup>, 2019.

## List of PPAs entered into -

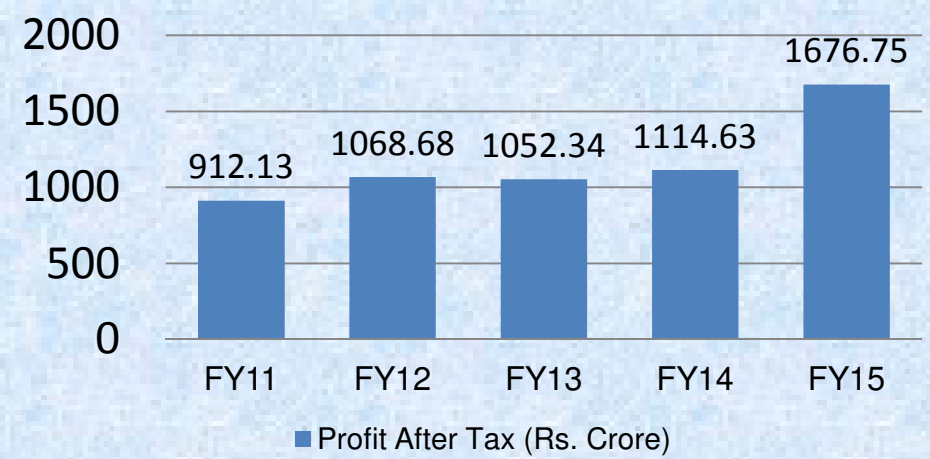
Party	State	Commencement Year	Duration (years)	Allocation (%) <sup>2</sup>	MWs
Punjab State Electricity Board	Punjab	May-14	35	5.62	23.16
Haryana Vidyut Prasaran Nigam Limited	Haryana	Aug-14	35	4.15	17.11
Chandigarh Administration, Engineering Dept.	Chandigarh	Dec-14	35	-	-
Government of Himachal Pradesh	HP	GOHP provided the consent and PPA shall be signed shortly.	35	41.91	172.66
Himachal Pradesh State Electricity Board	HP	May-14	35		
Power Development Department of J&K	J&K	Feb-14	35	7.12	29.35
Rajasthan Rajya Vidyut Prasaran Nigam Limited	Rajasthan	Feb-14	35	7.72	31.81
Uttar Pradesh Power Corporation	UP	Feb-14	35	13.76	56.68
Uttarakhand Power Corporation Limited	Uttarakhand	Jan-14	35	10.58	43.59
Unallocated				9.14	37.64

# Strong Financial Performance (1/3)

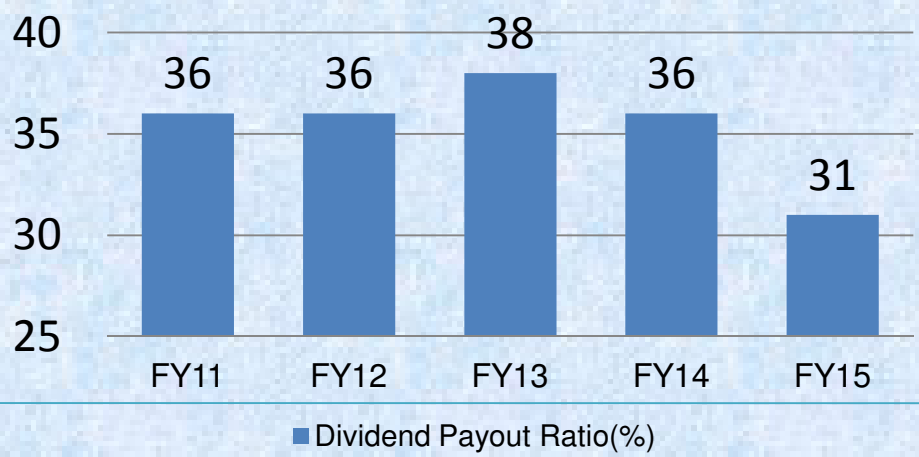
**Total Revenue (Rs. Crore)**



**Profit After Tax (Rs. Crore)**



**Dividend Payout Ratio(%)**

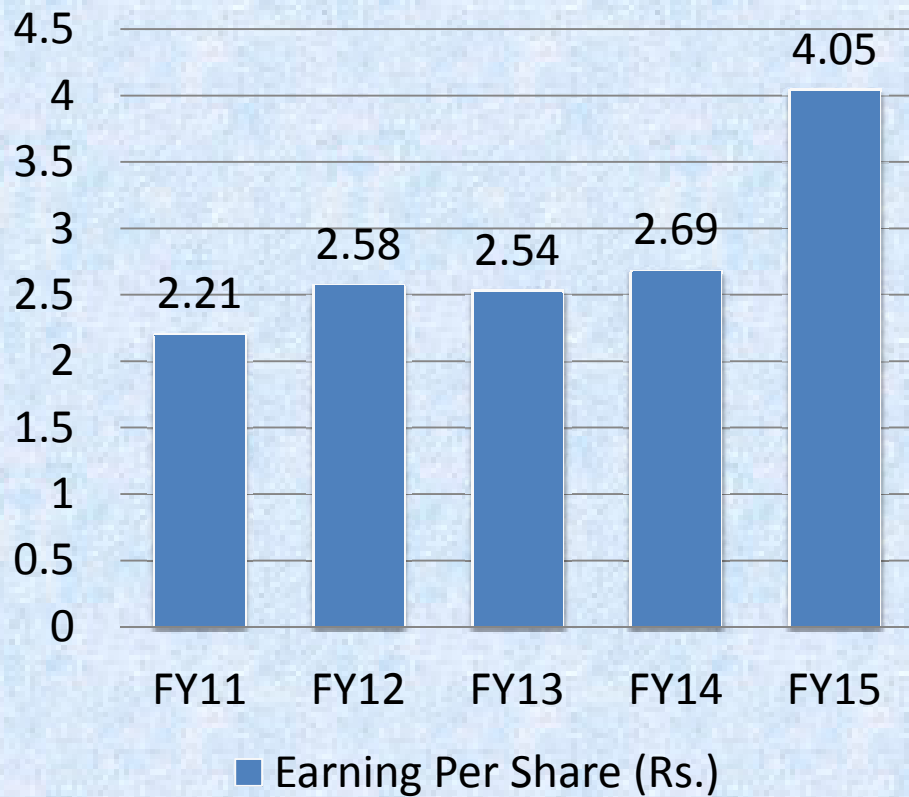


**Debt to Equity Ratio**

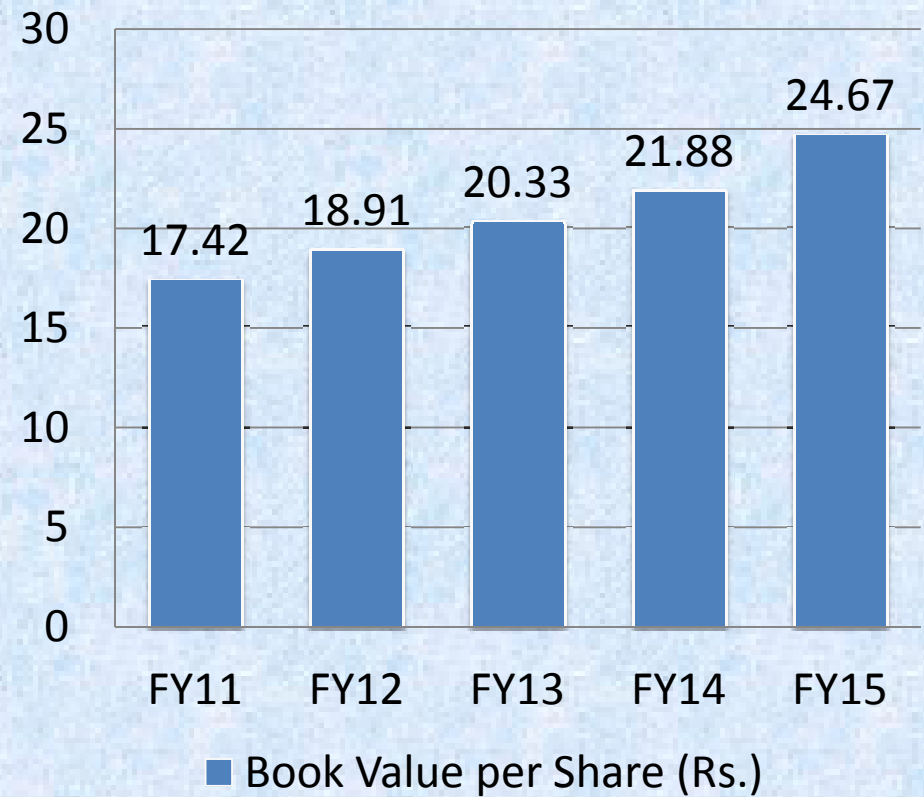


# Strong Financial Performance (2/3)

### Earning Per Share (Rs.)



### Book Value per Share (Rs.)





## Strong Financial Performance (3/3)

	Units	FY15	FY14	FY13	FY12	FY11
<b>Gross Generation</b>	<b>MU</b>	<b>8136</b>	<b>7196</b>	6778	7610	7140
<b>NPAF (NJHPS)</b>	<b>%</b>	<b>90</b>	<b>82</b>	82	82	82
<b>PAF (NJHPS)</b>	<b>%</b>	<b>105.50</b>	<b>105.75</b>	105.15	104.26	98.30
<b>Debt Equity Ratio</b>		<b>0.24</b>	<b>0.24</b>	0.22	0.19	0.24
<b>Dividend Payout</b>	<b>%</b>	<b>31</b>	<b>36</b>	38	36	36
<b>Turnover</b>	<b>Rs. Crore</b>	<b>2817.53</b>	<b>1873.58</b>	1682.10	1927.5	1812.67
<b>Other Income</b>	<b>Rs. Crore</b>	<b>443.57</b>	<b>237.14</b>	234.52	209.29	143.15
<b>Total Income</b>	<b>Rs. Crore</b>	<b>3261.10</b>	<b>2110.72</b>	1916.62	2136.79	1955.82
<b>Profit After Tax</b>	<b>Rs. Crore</b>	<b>1676.75</b>	<b>1114.63</b>	1052.34	1068.68	912.13
<b>EPS</b>	<b>Rs.</b>	<b>4.05</b>	<b>2.69</b>	2.54	2.58	2.21
<b>Book Value</b>	<b>Rs.</b>	<b>24.67</b>	<b>21.88</b>	20.33	18.91	17.42



THANK YOU